

HIPHARMA CLEANROOM SYSTEM

HIPHARMA CLEANROOM

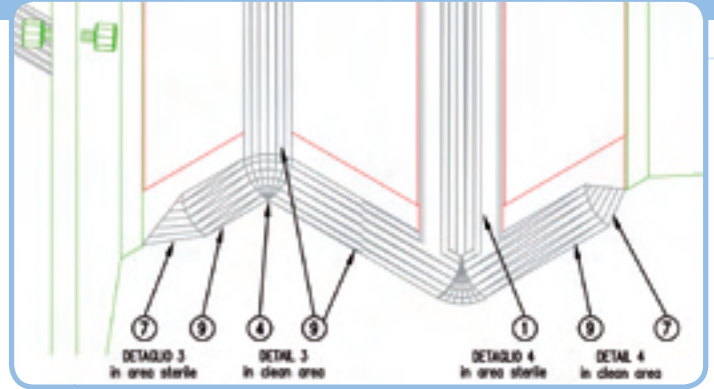


NICOMAC

HIPHARMA CLEANROOM SYSTEM

HIPHARMA-NICOMAC IS THE MOST ADVANCED UNIQUE CLEANROOM SYSTEM FOR PHARMACEUTICAL FINISHED PRODUCT AND API, AND FOR THE FOOD, DAIRY, BIOTECHNOLOGY AND ELECTRONICS INDUSTRIES

NICOMAC: CERTIFIED QUALITY



Federal Standard 209E Airborne Particulate Cleanliness Classes

CLASS	Number of Particles per Cubic Meter by Micrometer Size ISO 14644-1						FED STD 209E	
	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1 µm	5 µm	English Cu ft	Metric
ISO 1	10	2					0.5 µm	
ISO 2	100	24	10	4				
ISO 3	1.000	237	102	35	8		1	M1.5
ISO 4	10.000	2.370	1.020	352	83		10	M2.5
ISO 5	100.000	23.700	10.200	3.520	832	29	100	M3.5
ISO 6	1.000.000	237.000	102.000	35.200	8.320	293	1.000	M4.5
ISO 7				352.000	83.200	2.930	10.000	M5.5
ISO 8				3.520.000	832.000	29.300	100.000	M6.5
ISO 9				35.200.000	8.320.000	293.000		

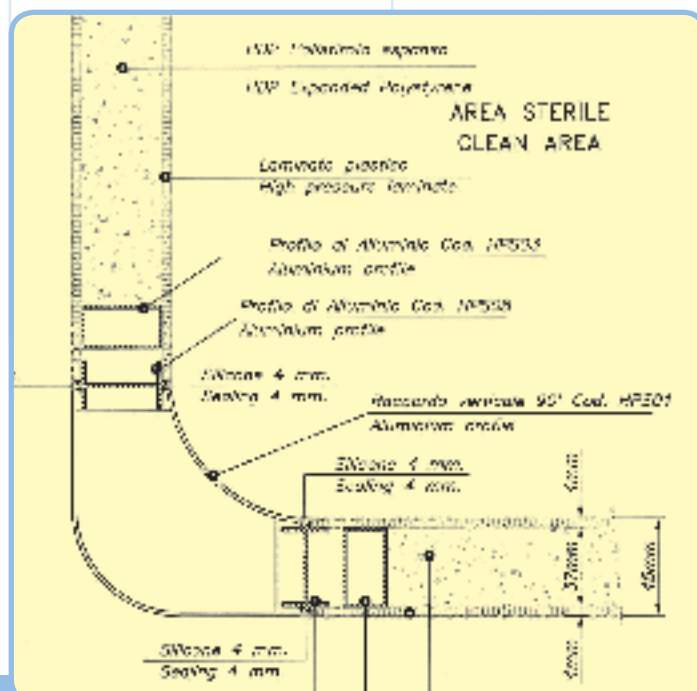
Hipharma CleanRooms are designed to operate in any kind of CFR 209 E classified areas



horizontal/vertical coving



90° flush vertical profile

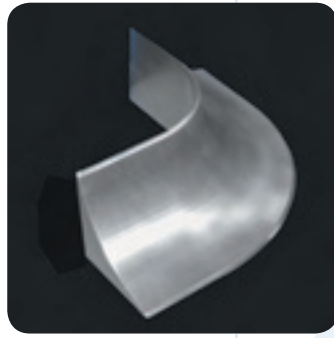


HIPHARMA CleanRooms top quality and great success all over the world is the result of: ISO 9001 certified QA, modern GMP design, proactive and flexible organization, professional project management, continuous technical innovation, years of experience, first class materials, flush finishing, care paid to the fine details, skilled and experienced installation crew, respect of time-schedule, fast and reactive communication, immediate reaction to on-site modifications, easy integration of equipment and accessories with the CleanRoom. HIPHARMA CleanRoom System combines high quality and innovation with competitive prices. Professional engineers supervise all aspects of the installation process. We help you to plan and coordinate your project while respecting your time schedule. Skilled Nicomac crew installs Nicomac CleanRooms for a professional, fast and reliable final result.

ADVANCED HIGH TECH PRODUCTS



1/8 sphere corner



1/4 sphere corner



180° flush vertical profile



top covings and corners

Documentation

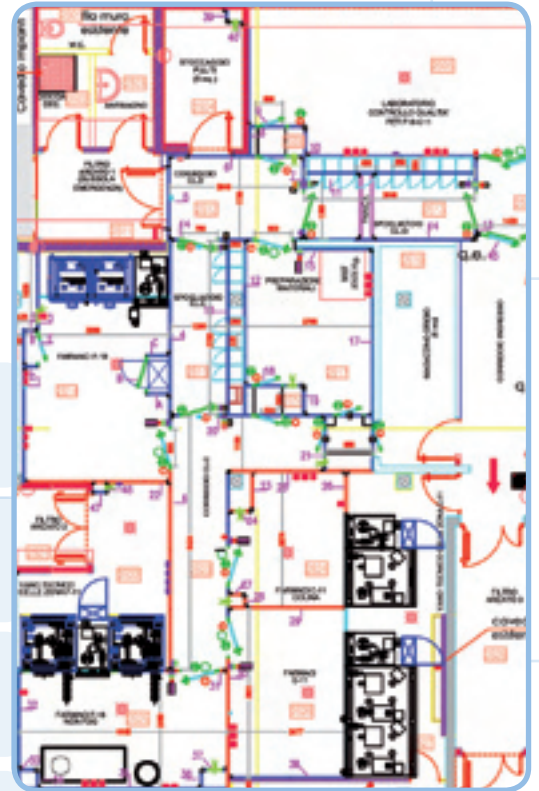
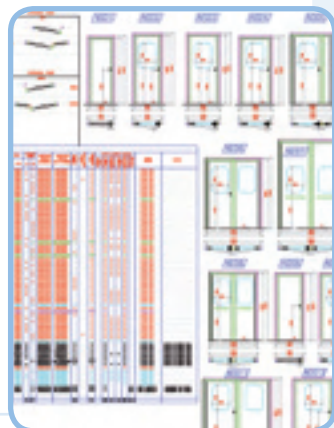
Detailed engineering documentation is the first step of a successful CleanRoom project. Nicomac provides: Room layout - False Ceiling layout, doors schedule and elevation shop drawing, "as built" drawings, technical specifications, material certificate and user's manual.

Quality-cGMP

High quality, attractive appearance and competitive price. Only first class materials are used. High-quality finishes are applied on all surfaces.



covings around beams and boomerang profile



HIPHARMA CLEANROOM SYSTEM

WIDE RANGE OF MATERIALS

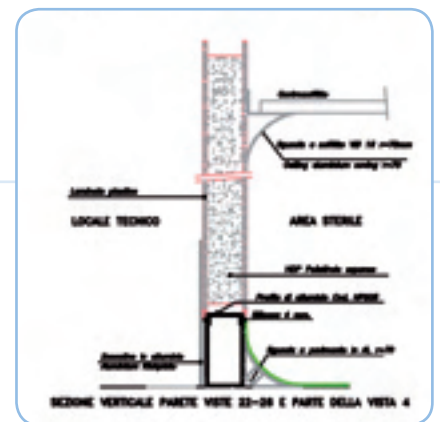
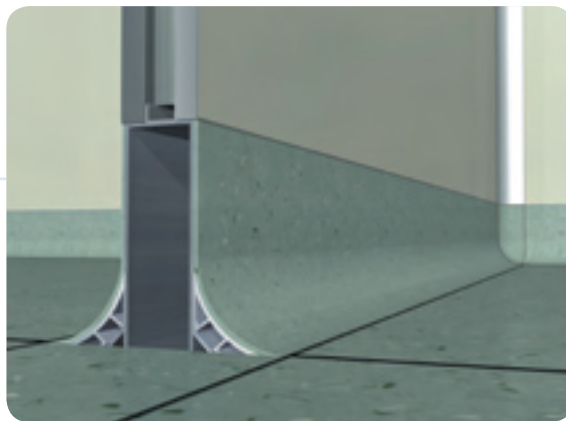
Nicomac can supply different kind of skin panel and insulation materials:

Skin panel

- HPL - High Pressure Plastic Laminate 4 mm thick
- GL - 12mm or 45 mm Glass partitions - it. patent pending profile N°MI 2009A001281
- GA - ST Galvanized powder coated steel partitions with 0.8mm thick bent sheets
- AL - Aluminum partitions with 1.2 mm bent sheets
- ST/ST - Stainless steel AISI 304 wall panel
- UPVC - Galvanized powder coated steel partitions with 0.8mm thick bent sheets and unplasticized 100 μ PVC (uPVC) coating

Insulation materials

- High density polystyrene 35kg/m³
- PUR High density polyurethane 35kg/m³
- PIR Polyisocyanurate 45kg/m³ (Class B1)
- Rock wool 150kg/m³
- Honeycomb aluminum



WALLS

ATTRACTIVE DESIGN

From floor to ceiling, the attractive and unique Nicomac Italian design of Hipharma CleanRooms really stands out.

UNIQUE FEATURES

With any kind of Nicomac panels, all ceilings and floor coverings are flush to the wall. All corners are rounded to avoid dirt and particle build-up.

HPL - High Pressure Plastic Laminate panels: High mechanical resistance - 4 mm. thick - Scratch resistance ≥ 2 according to EN 438-2.20 - Easy to modify on site - No maintenance - No dents - No microorganism growth - Resistant to hot water, steam, resistance to solvents and detergents used in pharmaceutical

GL - Glass wall: Attractive appearance with fully visibility and natural light exposure

ST - Metal panels: Bent sheets at four sides with bent crack resistance Class T according EN13523-7 - First Class pre coated 150 μ steel - Heavy structure framework with 0.8 mm thickness sheet - Strength limit 270 N/mm² - Length extension percentage 22%

AL - Metal panel - Easy to modify on site - Light panel



FULLY MODULARITY FLEXIBILITY

Nicomac panels are removable using a unique system with springs it. Patent N° 1287843.



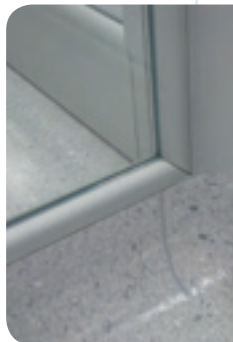
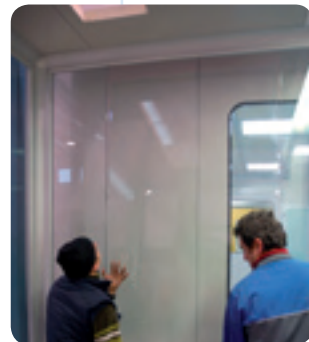
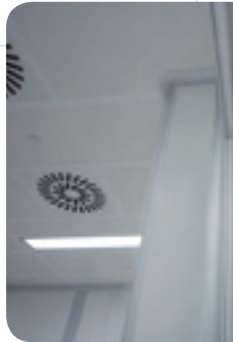
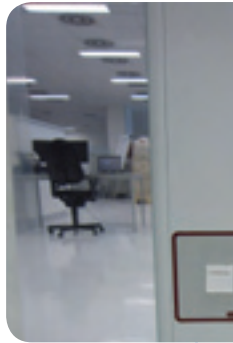
HIPHARMA CLEANROOM SYSTEM

INNOVATION

Attractive and full visible glass wall can be supplied in any size requested. Thanks to Nicomac profile it. Patent pending MI 8009A001281, the Glass can be easily assembled and disassembled for equipment integration without the need to remove ceiling and flooring profiles.

FDA inspectors welcome glass walls because it allows for inspections of CleanRoom areas without entering and risking contamination.

Nicomac developed an aluminum return air column it. Patent MI 2006A001776.



WALLS



Open space

For secondary areas, Nicomac developed a fully or half glazed open space separation wall with dedicated rounded aluminum profiles.

HIPHARMA CLEANROOM SYSTEM

DOORS

We offer both single and double swing doors, in a variety of sizes. Our doors have rounded profiles, no visible screws, double gaskets, in the frame and in the leaf with automatic drop seal at floor allowing a full tight system.

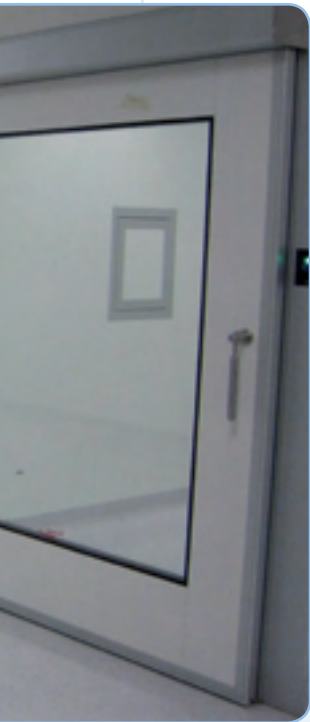
Manual or automatic sliding doors, automatic tight sliding doors, automatic swing doors.

Available accessories:

- door kick plate
- self closing systems
- programmable logic interlocks
- controlled access systems
- light touch sensor

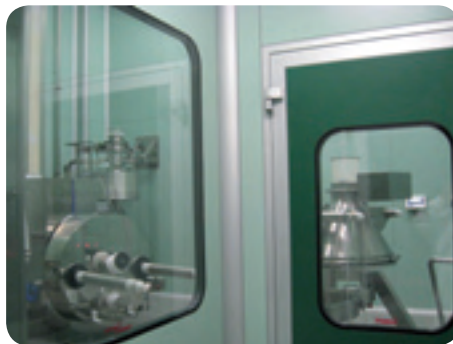


DOORS AND WINDOWS



GLAZING

Nicomac can supply glazing in different sizes, guaranteed against moisture for 10 years. Fully flush to the wall.



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SUSPENDED FALSE CEILINGS

All our ceiling structures can be installed as walk on type.

We have two systems depending on application:

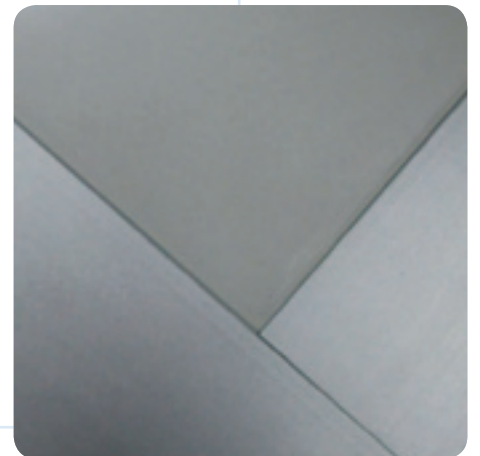
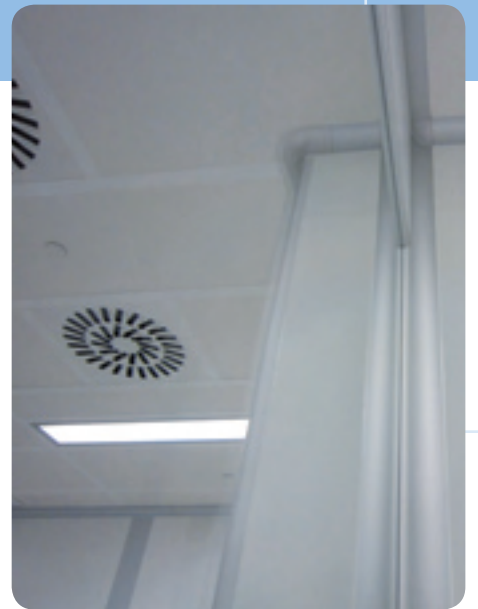
- T grid profile fitted with different kind of panels
- full size flush panels 1200x2400mm (4'x8').



FALSE CEILINGS

ACOUSTIC FALSE CEILINGS

To reduce the noise impact for the operator, Nicomac developed a new false ceiling panel able to decrease the noise level inside the CleanRoom.



HIPHARMA CLEANROOM SYSTEM



handles and knobs



digital clock



covings on existing floor



sprayclean



pvc floor



return air wall



return air grills and Nicomac patent pending column



bench and mirror

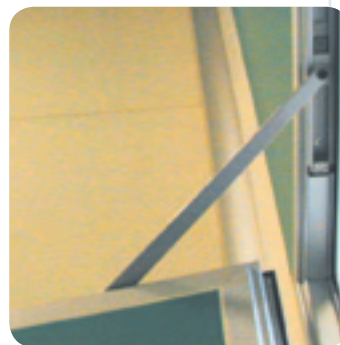


perforated return air grill

Architectural Turn-key supply

From floor to ceiling, we are able to supply everything installed inside the CleanRoom. A very wide range of accessories such as:

- Light fixture with top or bottom maintenance
- Mirror polished stainless steel bench
- Automatic hand washer
- Lockers
- Recessed flush return air grill
- Pass-box with HEPA filter or UV lights
- Intercom and Interlock door systems
- Recessed flush 120-220-380 volts - phone data receptacles.



self closing systems



ACCESSORIES



intercom in a technical panel



electrical receptacles - folding table - box



intercom



interlocked pass box



flush semaphore - badge reader - switch



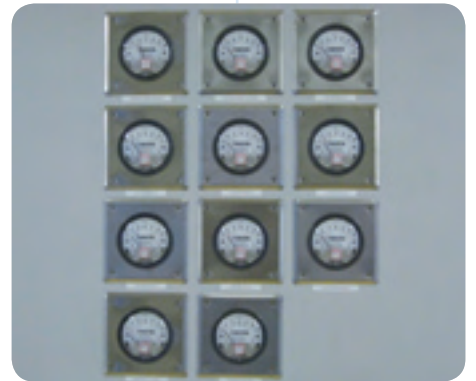
utilities



ventilated pass box



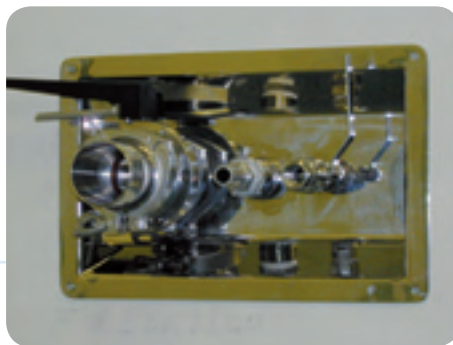
electrical st. steel box



magnetic recessed in the wall



ventilated pass box



pneumatic st. steel box



bumpers

REFERENCES



References

We provided, with great success, many FDA approved CleanRooms in about 60 countries around the world. We supplied both medium and large size CleanRooms to a local and multinational Companies such as Bayer, Bristol Meyers Squibb, Ely Lilly, GSK, Krka, Merck-Schering Plough, Novo Nordisk, Pfizer-Wyeth-Pharmacia Up John, Siemens, Teva are some of our satisfied clients.

Nicomac Far East India is also leader of Asian CleanRooms market, we supplied: Auribindo, Dr.Reddys, Indus Pharma, Intas Pharmaceuticals, Emcure Pharma, Hetero Drugs, Panacea Biotech, Square Pharma, Zydus, and many more.

Our best advertisement is the satisfaction of our Customers.



NICOMAC FAR EAST



NICOMAC FAR EAST India, one of the most modern and efficient CleanRoom plant in Asia, manufactures according to international QA and safety standard with state of the art European and Japanese machinery.



FIRE RESISTANT

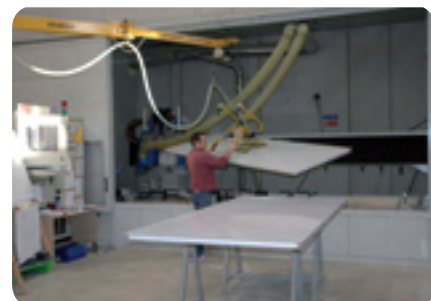
Walls, doors, and false ceilings can be supplied according to the client requirements for Fire resistance as per international standards as well to local regulations. Many of our customers worldwide had their installations certified by Factory Mutual.



A WORLDWIDE COMMITMENT

Whether you are planning a small modification to an existing CleanRoom or designing a new production facility, Nicomac's Hipharma CleanRoom is the answer to all your CleanRooms needs.

QUALITY IS OUR DAILY GOAL



Nicomac reserve the right to change the submitted technical data.
Data in this catalogue is not binding.



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