Everything for contamination control

MADE IN ITALY |

Tecninox

#controlledcontamination

Tecninox worldwide

Czech Republic

Italy

Tunisia

Cuba

Chile

Algeria

Mexico

Slovak
Republic

Hungary

Greece

Bulgaria

Egypt

Jordan
Tecninox Middle East

Saudi Arabia

Tecninox

Company

Tecninox, founded in 1977 as a manufacturing industry, is an Italian excellence in the field of machines and equipments for sterile and contamination controlled environments.
Flexibility and expertise make it the ideal partner, able to support the Customer from the project to the production, installation and validation.

Tradition and passion

For more than forty years Tecninox focuses its attention on the production process, supported by an increasing technology and constant research and development.

Internal manufacturing

Internal manufacturing allows a closer relationship between the engineering department and production department, to offer customised products for each one of our Customers.

Our values

Loyalty The loyalty towards our Customers and the trust they have been placed in us for more than 40 years are the heart of the long-lasting relation between us.
In the same way, professional relationships promoted within the Company are based on loyalty and mutual trust between colleagues and towards collaborators with whom we interact everyday.

Collaboration People in Tecninox are part of the same team: we work in synergy, we share ideas and know-how trying everyday to learn from each other's experience and to enhance the Company's knowledge and skills.
We aim to share with Customers and Suplliers not only business but also a long-lasting relationship of mutual trust.

Respect Respect is the essential rule of our team game: respect of fundamental human rights and values, respect of health and safety of the whole team and collaborators.
It is the main value at the basis of relationships: everyone is called to respect the others and their work, commitments to all of those with whom we interact daily.

Integrity Integrity and transparency are the fundamental values behind our business. Team work needs mutual trust among people, being sure that everyone is doing the right thing. The same values are at the basis of our respectful communication, both inside and outside the Company.

Quality and safety

We are ISO 9001-2015 certified by DNV GL, and EN-1090-1 and UNI EN ISO 3834-2 by IIS CERT.

Products range

Containment

Decontamination

LAF

Furniture and accessories

Intellair

Fan Filter Unit

Fan Filter Units Intellair generate a laminar airflow (0,45 m/s ±20%) HEPA/ULPA filtration degree, suitable for all those applications requiring the contamination control. Fan filter unit is a rectangular or square system that fits in areas of any shape. Basic module is a stand alone system consisting of a fan and an HEPA filter.

Several solutions can satisfy confinement needs quickly ad effectively, without affecting existing installations. Fan filter units generally lean on the false ceiling frame. Inside those areas of small size or requiring a localised concentration of particles control, units can have a self-supporting structure (Mobile FFU) in stainless steel equipped with supporting legs on feet or wheels.

Options

- Automatic regulation of the flowrate.
- Filtration ULPA.

Basic Intellair configuration provides the manual regulation of the fan. As option, it is possible to provide the automatic regulation of the flowrate (PC version) and benefit from some advantages:

- Energy saving (360 W at 0,45 m/s).
- Low noise level (<60 dBa measured at 1 m from the filter).
- Automatic management of the functions.

DS version allows to remove the HEPA filter directly from the cleanroom instead of the false ceiling.

	Flowrate (m³/h)	W (mm)	D (mm)	H (mm)	HEPA filter (mm)	kW	V	Class ISO
IA6P6	600	636	636	603	602x602	0,3	220V–50Hz	5
IA6P12	1220	636	1240	603	602x1206	0,6	220V–50Hz	5
IA6P6DS	600	644	644	415	610x610	0,3	220V–50Hz	5
IA6P12DS	1220	644	1254	415	610x1220	0,6	220V–50Hz	5

Jimbo
Laminar flow booth

Laminar flow unit manufactured in stainless steel, suited to areas of any shape thanks to its modularity.

Jimbo units are the most suitable solution for those areas requiring the environmental classification of an isolated area, allowing to maintain sterility conditions and protecting the products from possible contaminations.

Options and customisation

- Stainless steel AISI 316L manufacturing.
- ATEX execution.
- Supporting legs in stainless steel.
- Airflow equalizer in polymeric canvas (±2% on the entire filtering surface).

	Flowrate (m³/h)	W (mm)	D (mm)	H (mm)	Prefilters	HEPA filters (mm)	Fans	Power (kW)	Voltage	ISO class
Jimbo 07.07	600	700	700	700	G4	1x610x610	1	0,4	230V-50Hz	5
Jimbo 13.07	1200	1300	700	700	G4	1x1220x610	1	0,6	230V-50Hz	5
Jimbo 13.13	2400	1300	1360	700	G4	2x1220x610	2	1,2	230V-50Hz	5
Jimbo 13.20	3600	1300	2000	700	G4	3x1220x610	3	1,8	230V-50Hz	5

Jimbo Mobile

When laminar flow modules are not installed directly above the production lines, they can be mounted on the Mobile structure and move from an area to another, serving other activities.

Jimbo Trolley

Jimbo Trolley is designed to keep products safe during their transfer, passing to an area with higher contamination level.

Internal equipment is customised to meet specific production needs.
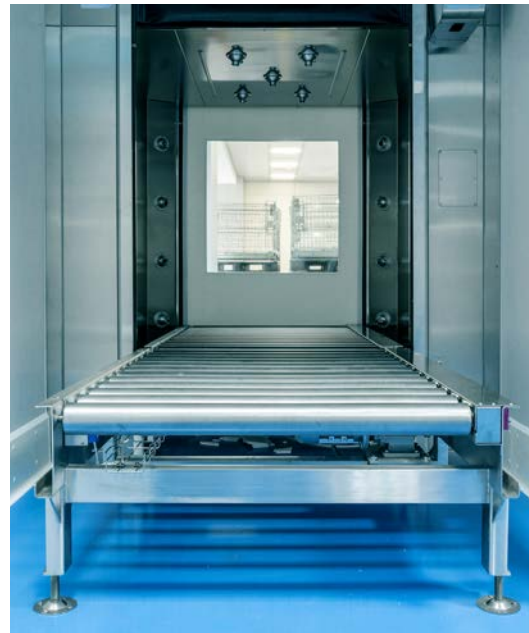
Material handling systems

Material handling systems perfectly integrate in all the areas requiring the highest standards of cleanliness.

All the material handling systems are designed after an adequate analysis of the Customer's needs, and are frequently combined with systems for decontamination or suitable to ensure different pressure gradients or variation of environmental classification (such as air showers, pass boxes, airlocks, sampling rooms, etc.).

Mechanics integrates with automation and software to provide full funcionality and efficiency of the automatic handling systems.

Handling systems can fit in areas classified up to ISO 5 (according to EN 14644-1) and are suitable to handle materials such as:

- Pallets
- Drums
- Containers
- Boxes
- Bags

Material handling systems are manufactured in stainless steel AISI 304 or 316, both structure (frames, covers) and mechanics (rollers, chains, sprockets).

When **rollers** are not applicable, they are replaced with **belts** realised in material compatible with contamination controlled environments.

Conveyor lines can be equipped with **rotating tables** or **pushers**, for rotation or change of direction (for example inside the material air showers).

Operation and safety are ensured by the presence of photocells or detection systems, control and automations are managed by specific softwares.

Furniture and accessories

Furniture

- Tables
- Workbenches
- Lavatories
- Closets
- Brackets
- Cabinets for dressing room
- Autoclavable chairs and stools

Accessories

Tecninox realises a full range of accessories and equipments to furnish pharmaceutical, chemical, food and microelectronics production departments, where specific cleaning and ergonomics criteria are mandatory. As well as a complete line of furniture, accessories are available. In particular:

INLET GRIDS WITH PARTIALISATION SYSTEM

BENCHES FOR STERILE AREAS, "S" or "U" version, complete with germicidal UV lamps.

PERFORATED TABLES FOR LAMINAR FLOW

MULTIUSE TROLLEYS in stainless steel, scotch brite finished, opened version. Different dimensions or designs, according to the transferring material needs.

BUILT-IN OR EXTERNAL SOCKETS 400/230 V, concave or convex model in accordance with installation needs.

SHELVES AND BRACKETS single or modular, different dimensions. Smooth or perforated steel sheet frame. Design according to the required plane load.

MEZZANINES, also wolkways. Manufactured in stainless steel, grating or almond patterned slip resistant. Dimensions on request. Staircase, handrail and side steel sheet as completion.

BUMPERS in circular-section tubular, with hidden fastening system. Dimensions on request, according to the layout requirements.

TANKS FOR WASHING ROOMS

CLEANFAST CURTAINS SYSTEM, to define areas inside cleanrooms or controlled contamination environments. Perimetral compartmentalisation is is done through curtains in flexible, transparent and antistatic PVC, supported by a stainless steel AISI 304 frame scotch brite finished. Cleanfast fastening system is designed to facilitate PVC curtains cleaning, harder to be carried out vertically. Cleanfast system allows to remove 800 mm sectors of curtains, simply unfastening them from the support, facilitating the cleaning operations.

Tecninox

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