

## LABWORKS MODULAR CLEANROOM APPLICATIONS

ASEPTIC / GMP Processing Areas

Nano Technology

Genomics / Regenerative Medicine

USP 797/800, NAPRA Compliant  
Compounding Facilities

Packaging

Medical Device Manufacturing

Trace Metal

Temperature Controlled Cleanrooms  
(Cold, Warm)



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# lab WORKS

International Inc.



## MODULAR CLEANROOMS

INNOVATION AT WORK

## MODULAR CLEANROOMS

Labworks International is a leading North American provider of turn-key Modular Cleanrooms. Installations ranging from small single room cleanrooms up to large precision facilities with precision cleanliness and temperature requirements.



## PANEL SYSTEMS

Labworks provides a number of different panel systems depending on the performance requirements and application of the room. The more common systems we offer include:

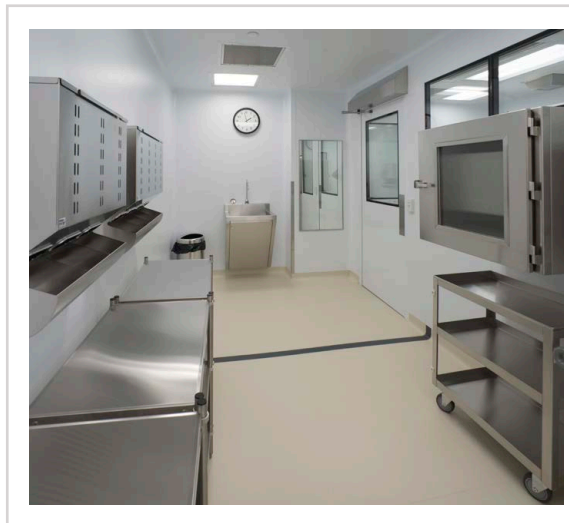
- Pharma System\* – honeycomb aluminum panel system with uPVC lining and cold-weld seams. Ideal for biomed, biotech, medical device, and pharmaceutical processing.
- Microelectronics System\* – aluminum core system with aluminum skins and static dissipative surface treatment. Perfectly suited for any microelectronics or semiconductor application.

- Rigidwall System – Low cost panel and frame system suited for areas where a standard Iso cleanroom requirements are needed.
- Trace-Metal System – Non-metal FRP panel system suited for research, testing and other applications where metals are not wanted in the cleanspace.
- Insulated System\* – for classified environmental rooms where precision temperature control and cleanliness are both required.

\*available in FM4880 certified panels.

## APPLICATION SUPPORT

Labworks offers full design-assist services to our clients and architects to facilitate the implementation of Labworks modular systems. Modular systems are purpose-built for cleanroom environments and contain features that ensure high performance, efficient installation at similar or lower costs than traditional stick-built cleanrooms. Labworks engineers are fully trained on cleanroom standards including ISO 14644, GMP/cGMP, ASHRAE cleanroom design guidelines, USP, and more. As a leading modular cleanroom provider Labworks brings years of practical experience and best practices to every design.



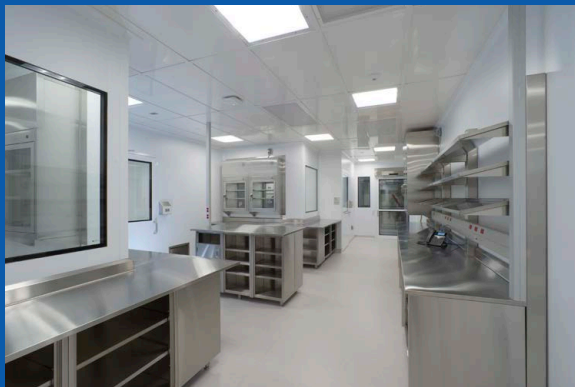
## HVAC

Labworks International can provide full turn-key HVAC systems to meet the requirements of the cleanroom application. Our extensive background in cleanroom design and construction has led to "Labworks HVAC Design Standard for Cleanrooms". Our engineers, technicians and installers are acutely aware of the stringent requirements of cleanroom HVAC. Our solutions include air handling systems, air valves, exhaust systems, pressure control and monitoring, filtration, and temperature control. Quality control programs ensure the systems work properly and are designed for life cycle performance.



## MODELLING

Every Labworks cleanroom is fully modelled for constructability, quality and performance. Using tools such as Revit, Solidworks, and Computational Fluid Dynamics the layout, equipment and HVAC are tested to ensure the room will function as required. During this stage we are able to 'walk' user groups through the design to work through the process flow of the space. Finally the selection can be inserted into the building model for clash detection and to deal with any areas where construction may be a concern.



## CASEWORK / EQUIPMENT / FURNITURE

Labworks works with leading providers to provide the required casework, equipment and furniture in our cleanrooms. As an OEM provider with many manufacturer's Labworks is able to provide preferred pricing as well as engaging application specialists through the design process of the space. By selecting the best-in-class product for the specific application we are often able to provide a much higher quality system at an equal or lower price.

