

genoma labs



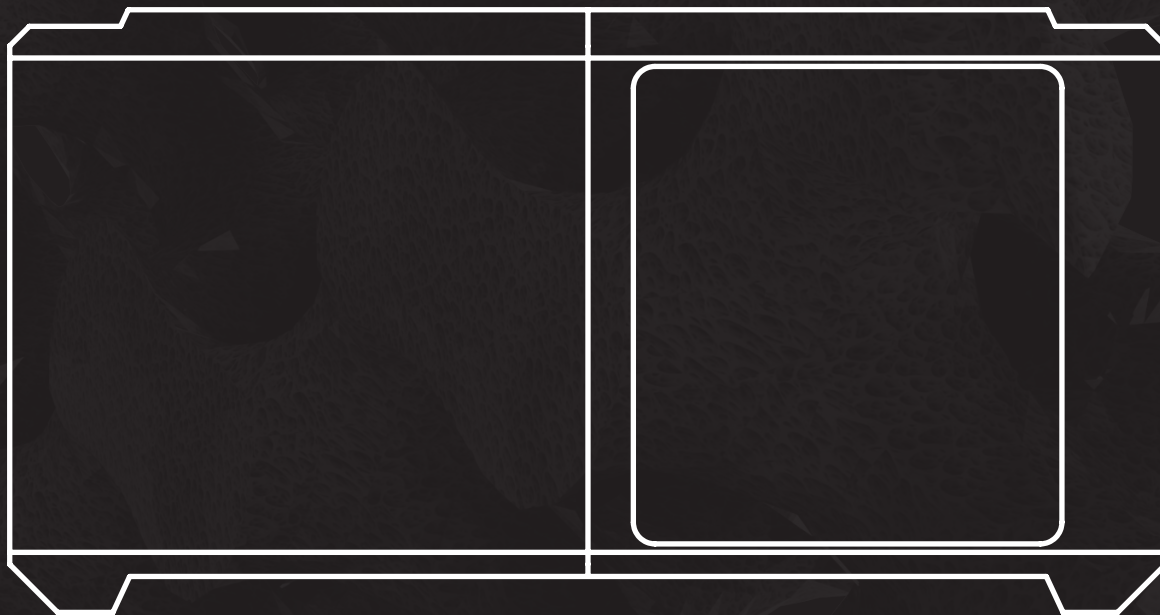
# PLUG & PLAY LABORATORY SPACE

advanced  
eco manufacturing

NSF / SIBR PHASE 1 CANDIDATE

ISSUE -  
02/28/2024

-> GENOMA LABS first prototype, L400



# L400 base unit /empowering science



120  
SF

## LOS ANGELES

CASE STUDY FOR  
A GLOBAL PROBLEM:

### LACK OF LABORATORY SPACE

Los Angeles is one of the top life sciences clusters in the U.S. with 28 companies actively seeking space at the end of the last COVID pandemic, according to CBRE Research.

The market recorded 950,000 SF of demand for lab/R&D space with only 681,170 SF under construction and at today's date the supply of lab space has not yet improved substantially.

Flexible and scalable solutions of plug-and-play pods can help early-stage companies grow their operations without the



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# L400 specs

## / FEATURES

HEPA Filters, 99.99% @ 0.3μ 350-900 CFM  
wall connector  
electrical panel  
electrical plugs  
negative / positive pressure system  
emergency UV sanitation light  
digital & remote door access

## / SPECS

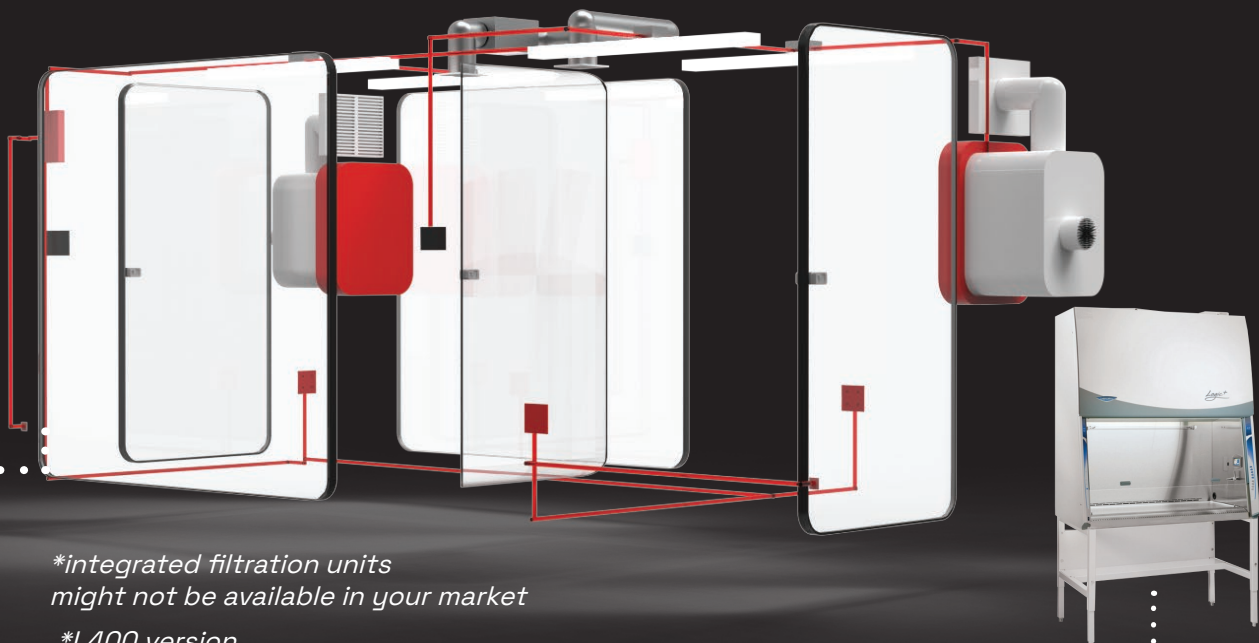
total space 120SF  
\*operational room space 60SF  
\*clean room space 60SF  
pod width 8'-0"  
pod length 16'-0"  
internal height 8"  
full assembly weight ~7000 lbs  
energy consumption 1-3 KW/h

### ISO 8 (BSL1) - Class 100,000 - 20 ACH \*

ACH = [ CFM X 60 ] / [ AREA X HEIGHT CEILING ]  
ACH = [ 350 X 60 ] / 120 X 8  
ACH = 21000 / 960 = MAX 21.9 ACH

### ISO 7 (BSL2) - Class 10,000 - 60 ACH \*

ACH = [ CFM X 60 ] / [ AREA X HEIGHT CEILING ]  
ACH = [ 1500 X 60 ] / 120 X 8  
ACH = 90000 / 960 = MAX 93.75 ACH



*\*integrated filtration units  
might not be available in your market*

*\*L400 version  
with internal divider for BSL2*

**Laboratory Equipment and Accessories indicated here are supplied by third party and do not represent preferred choices whatsoever. GENOMA LABS recommends users to purchase their own lab-equipment separately.**



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# L400 base unit /Pricelist

L400	Description	Price 5 unit minimum
1 unit L400	Base Model BSL1	market price
1 unit L400.2	Divider BSL2	market price
Air Filtration Unit	Portable Filtration and Negative Air System, 350 CFM	market price
Air Filtration Unit	Portable Filtration and Negative Air System, 1500 CFM	market price



L400 can be equipped with laboratory equipment such as: **SANITIZERS, LAMINAR AIR FLOW, TEMPERATURE CONTROL, PORTABLE SINK, EYEWASH STATIONS, PURIFIERS, BIOSAFETY CABINETS, AIR SHOWER** and more.



Portable Air Filtration Units of various kind are market available and can be plugged inside the base model for filtering the air from inside of the pod to the outside, creating a negative pressure.



# L400 market



L400 is deployable as a indoor only "**clean room**".  
Certifiable ISO 7 and ISO 8, suitable for BSL1 and BSL2 biosafety levels.



## biotech

- \_startups
- \_mid size enterprises
- \_large corporations

## research

- \_academia & institutions
- independent institutes
- \_healthcare conglomerates

## deep-tech

- \_semiconductors & electronics manufacturers
- \_aerospace & defense manufacturers
- \_nanotechnology companies

## food

- \_bio-engineering
- \_plant based
- \_harvesting & growing
- processing

## medical

- \_medical device manufacturer
- \_surgical instruments manufacturers
- \_prothesis & body replacements



**Cleanrooms are essential for miniaturization and nanotechnology** as they provide a controlled environment to minimize the risk of contamination and ensures high-quality production.

A small amount of contamination can have a significant impact on the performance and reliability of the device being developed. Cleanrooms control the levels of airborne particles, temperature, humidity, and other environmental factors, making it possible to achieve the level of precision and reliability required.



**CRISPR and cleanroom technology can benefit from each other in several ways.**

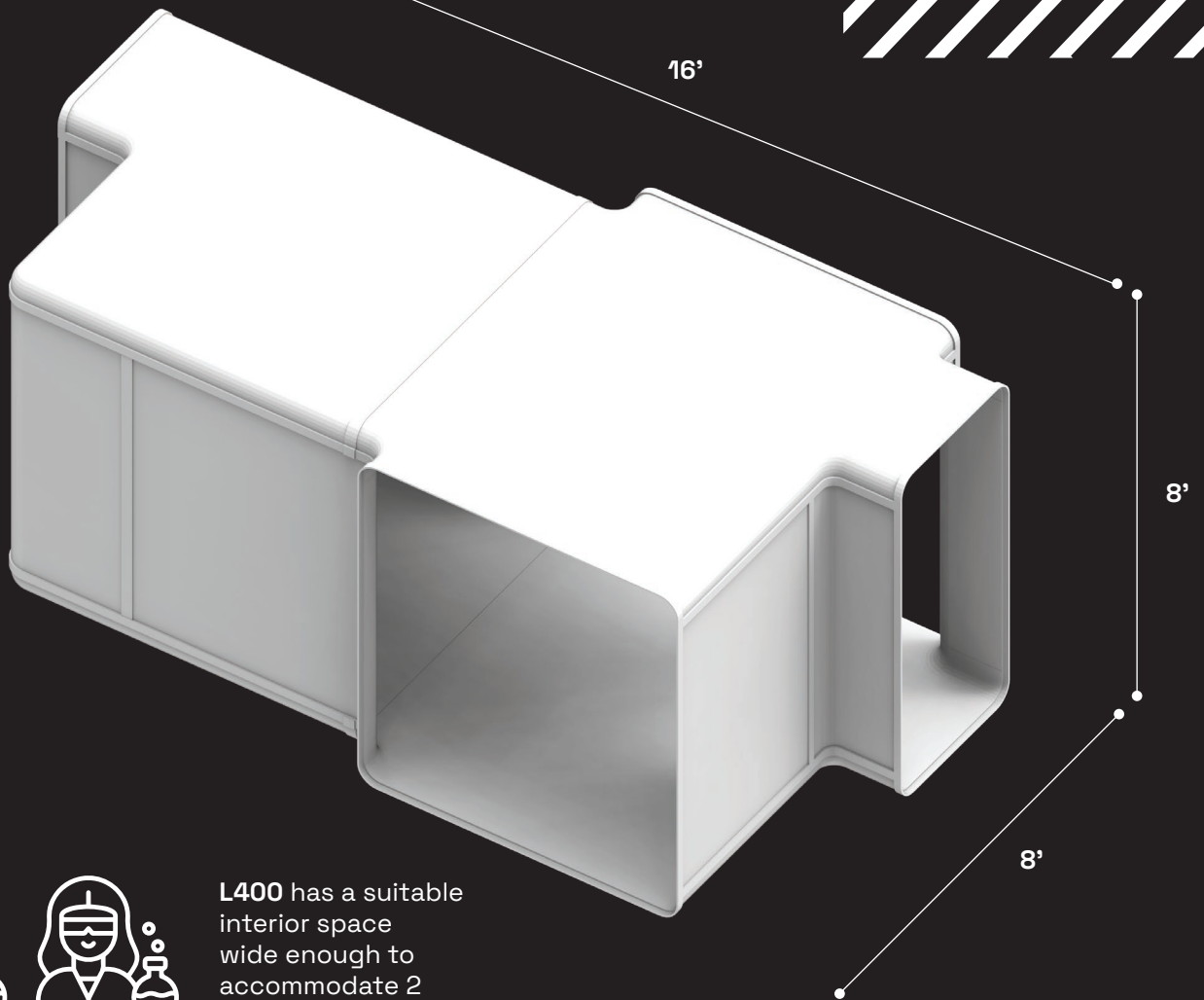
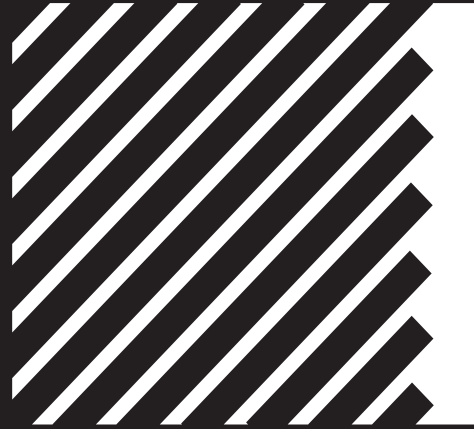
CRISPR technology requires a controlled environment to prevent contamination, making cleanrooms an essential tool for gene editing research. Cleanroom technology, on the other hand, can benefit from the precision and accuracy of CRISPR technology in developing new tools and techniques for monitoring and maintaining cleanroom environments.



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# L400 interior space /120SF



L400 has a suitable interior space wide enough to accommodate 2 users.



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# L400 layout

