

**How does it work?**

Quiet, oil-free, chemical-resistant pumps are installed in or near the lab, under the lab bench or fume hood, or on a shelf.

The network is plumbed quickly and easily with PTFE tubing and compression fittings. Specialized parts with integrated check valves provide vacuum stability and support multiple users.

Automated pumps speed up and slow down as needed, and go into sleep mode when there's no vacuum demand. Users simply open a valve when vacuum is required. The on-demand operation saves energy and maintenance.

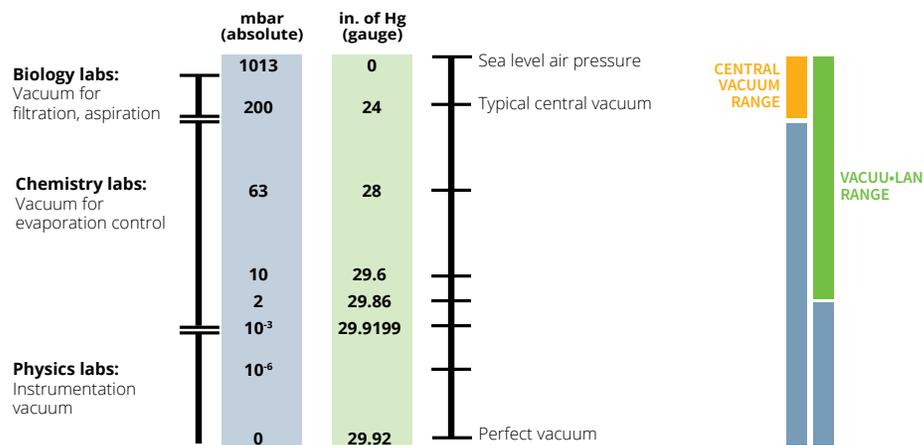
Labs are designed with either 70 mbar (27.85 in Hg) or 2 mbar (29.86 in Hg) vacuum depth, measured at each vacuum turret!



# VACUU·LAN® Lab Vacuum Systems

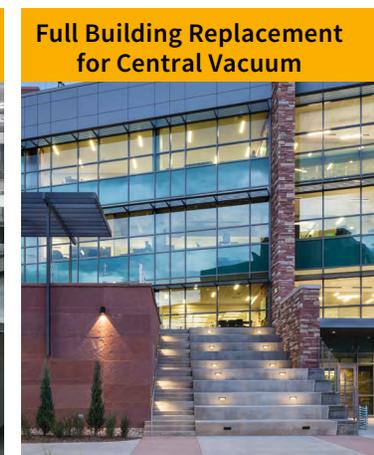
The Modern Replacement for Central Vacuum in Renovation or New Construction

**VACUUM DEPTH - Comparing VACUU-LAN Lab Vacuum Systems to Central Vacuum**



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**Learn more!** Visit [www.vacuu-lan.com](http://www.vacuu-lan.com) to watch a short video about these innovative systems. Or contact BRANDTECH at 888-522-2726 or by email at [info@brandtech.com](mailto:info@brandtech.com).



Compact, quiet, oil-free pumps in or near the lab support multiple vacuum users with no copper pipe! The modular technology is scalable from a single bench to complete labs, and full-building installation or replacement of a central vacuum system.

VACUU-LAN Lab Vacuum Systems produce vacuum on-demand, resulting in energy savings and reduced system maintenance compared to traditional central vacuum systems that run 24/7.

The benefits for scientists include deeper, more stable vacuum than typical copper-based central vacuum systems, with less noise, and the elimination of cross-contamination from user-to-user and lab-to-lab.

**VACUU•LAN® Lab Vacuum Systems: A Modular Solution for all Lab Projects**

**Multidisciplinary Science Buildings**

Chemists, biologists, physicists and engineers in today's mixed-use research and teaching buildings all need different vacuum. You can fine-tune the vacuum depth to each lab or floor.



Small, quiet, VACUU•LAN System pumps fit conveniently under a lab bench or fume hood

**Adaptable Installation**

VACUU•LAN vacuum systems can be easily installed where-needed, as-needed to allow quick adaptability and capacity as the requirements of a lab change.

**Laboratory Renovations**

VACUU•LAN vacuum systems are perfect for single-lab projects, or staged construction efforts. High-performance bench and fume hood vacuum can be installed one lab at a time, typically in a day or two.

**Critical Environment Labs**

VACUU•LAN systems isolate vacuum in critical spaces from adjacent operations.

This is an asset for clean rooms and biosafety laboratories.

**Research Parks/Incubator Space**

Avoid large up-front capital outlays and operating costs, and still offer high performance vacuum to tenants who need it. Avoid risk of cross-contamination between tenants.



Standard and ADA Fume Hood Valves/Turrets

**Complete Fluid Aspiration System**

When combined with our BVC Basic Fluid Aspiration Stations, your VACUU•LAN system can also provide a complete Fluid Aspiration Solution for your biosafety cabinets in lifesciences labs.

**The Benefits of a VACUU•LAN® Lab Vacuum System**

**High performance**

VACUU•LAN systems offer deeper more stable vacuum reducing vacuum dips and spikes common with house vacuum. Users are isolated from one another, eliminating cross-contamination risks between labs. A single, quiet pump supports multiple users while significantly reducing lab noise. Even our largest pumps max out at about 47 dBA, compared to a home refrigerator at 50 dBA.

**Reliable**

Oil-free pumps typically require NO maintenance for 7-8 years in most labs. Fluoropolymer (PTFE) vacuum tubing is much more chemical resistant than copper, ensuring long tubing life without leaks.

**Modular**

Add vacuum capacity one lab at a time, as you need it. Ideal for single-lab and staged renovation projects, as well as new construction.

**Adaptable**

As scientific needs change over the life of a building, vacuum can be added easily where needed, and conditions on existing systems changed in minutes.

**Sustainable**

VACUUBRAND dry diaphragm pumps eliminate oil changes and contaminated oil disposal. On-demand operation and variable speed pumps offer significant energy savings over central systems.

**Low Lifetime Costs**

VACUU•LAN systems offer lower upfront cost, and cost less to install, maintain, and operate. A large university study showed 55% energy savings over a comparable copper-based central vacuum system.

