

vesalius
Medical Ventilation Solutions.

THE FABRICA

CENTRALIZED VANTILATED CADAVER DISSECTION LAB



ISO 14001:2015
CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 9001:2015
CERTIFIED QUALITY MANAGEMENT SYSTEM

THE FABRICA

A custom-designed dissection lab with an integrated centralized ventilation system, engineered for large-scale, high-impact anatomical training environments.

Delivering a comprehensive infrastructure solution to the most critical challenge in the anatomy training class: exposure to hazardous formaldehyde fumes that endanger students, faculty, and lab staff.

Formaldehyde is essential for anatomical preservation—but without proper extraction, it vaporizes into the air, causing severe health effects such as eye and throat irritation, headaches, respiratory problems, and long-term discomfort.

The Fabrica is a custom-designed, centralized ventilation system that connects multiple dissection stations to a shared formaldehyde extraction and filtration backbone. This ensures consistent air quality, seamless workflow, and complete environmental control across the entire lab. Ideal for institutions creating flagship anatomy centers - those that require scalable infrastructure, top-tier safety, and integrated facility design.



In every great medical school, the dissection lab is more than a classroom. It's where future physicians take their first step into the human body.

A Fully Integrated System for the Modern Anatomy Department

Fabrica is a centralized ventilation and air treatment solution embedded into the very core of the dissection facility. A high-capacity blower and filtration system is installed in a dedicated utility space, silently extracting formaldehyde vapor through ducted connections to each workstation's dissection table. Air passes through multi-stage activated carbon filters and is either treated for recirculation or safely expelled, depending on institutional needs and climate control specifications.

The result: an ergonomically optimized, institution-wide dissection environment that supports large teaching cohorts while ensuring superior air quality, teaching effectiveness, and operational efficiency.

HOW IT WORKS

1. Fume Capture at the Source

Suction slots embedded in each Fabrica workstation pull formaldehyde vapor directly into the system.

2. Centralized Air Extraction

Ducts carry contaminated air from all stations to a mechanical room.

3. Multi-Stage Filtration

High-volume blowers pass the airstream through activated carbon and HEPA particulate filters.

4. Flexible Exhaust Options

Treated air can be recirculated into the room or exhausted outside, based on local codes.

ERGONOMIC

- Each workstation is optimized for stand-up work, featuring a 90 cm height and an adjustable base to support natural posture, reduce fatigue, and accommodate various working angles.
- Suction slots, not bulky hoods – students can move freely without visual or physical barriers.
- An integrated overhead camera projects the dissection to a screen, enhancing instructional clarity and group learning.



FABRICA'S KEY FEATURES:



Centralized System



Built for Scale



Custom Design Facility



Enhanced safety for students and staff



Minimal maintenance



Low operational costs

COST & ENERGY EFFICIENCY

With one centralized design powering the entire lab, Fabrica ensures uniform control over temperature, airflow, and safety across all stations - while eliminating redundant component and consolidating ventilation into a single efficient system, resulting in

1. Efficient Air Recirculation

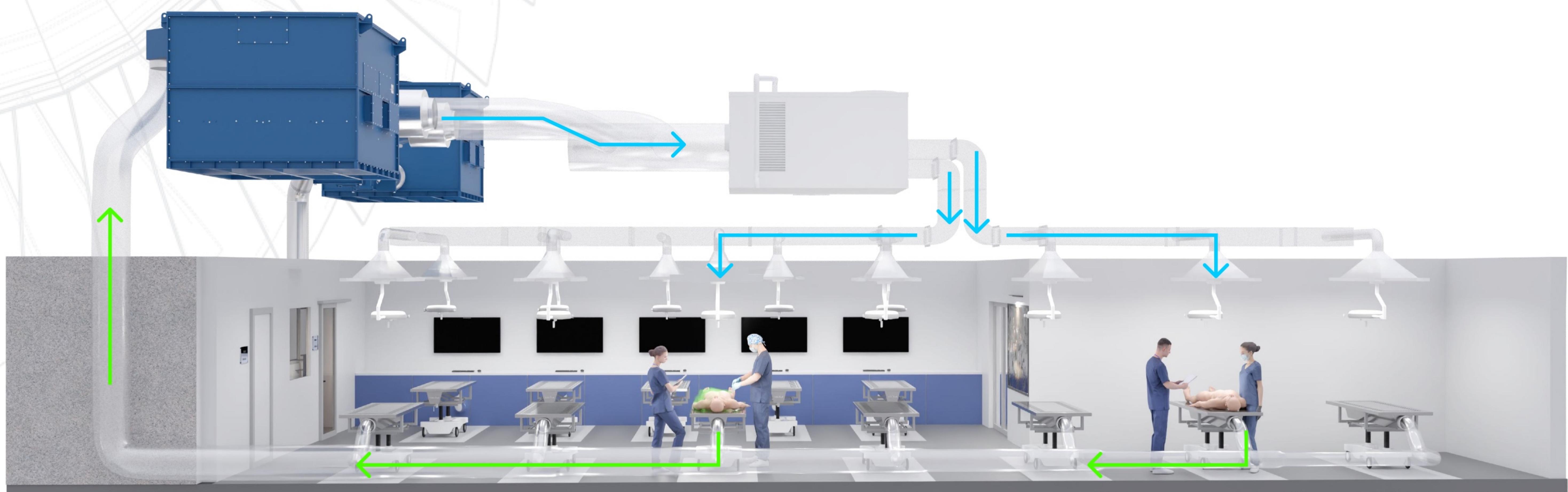
The system filters air within the room and returns it clean, avoiding the need to expel heated or cooled air outside. This dramatically reduces HVAC energy consumption and operating costs over time.

2. Reduced Fresh Air Requirements

The centralised unit filters all air in the room internally minimizing the need for external fresh air intake, further reducing energy demands.

3. Operational Efficiency at Scale

Centralized airflow management avoids the need for per-table blowers, reduces component redundancy, lowers maintenance needs, and optimizes energy load - resulting in significant long-term cost savings.



A FLAGSHIP LAB. A SAFER FUTURE

The Fabrica dissection lab is more than a workspace - it's a statement of educational excellence. With Fabrica, Vesalius offers a turnkey infrastructure that supports the highest standard of anatomical education, safely and sustainably.

MEASUREMENTS

