

LABWORKS

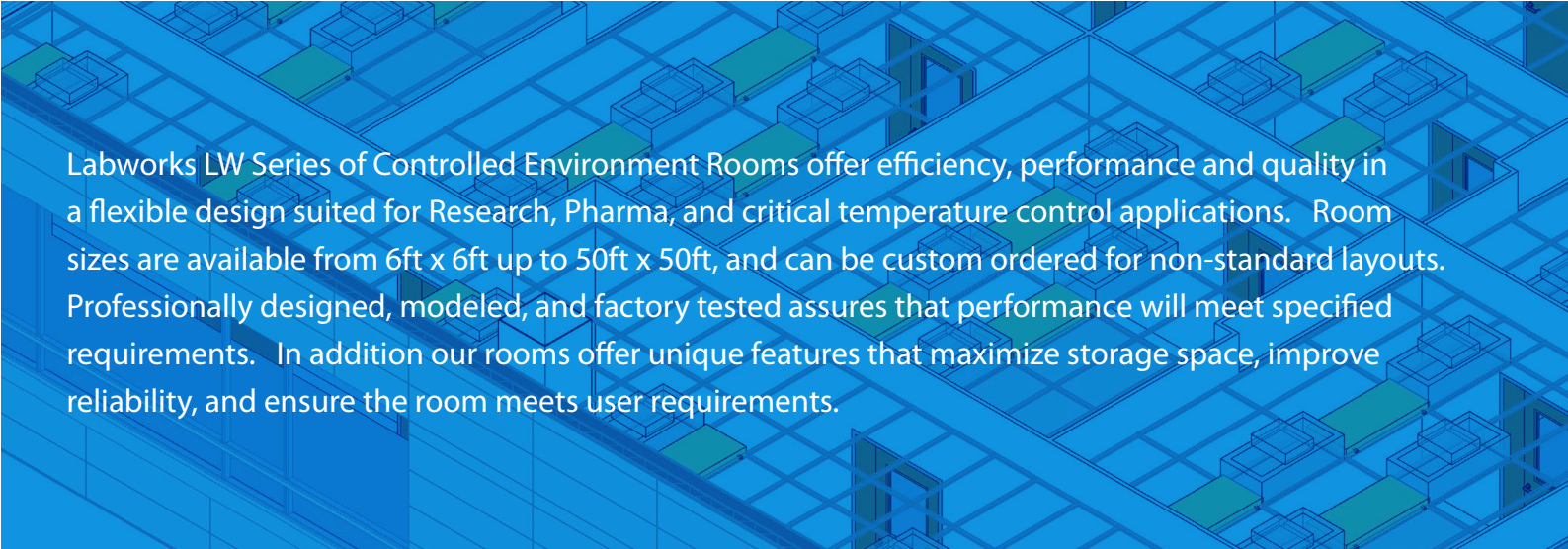
NEW

NEXT - GEN CONTROLLED ENVIRONMENT ROOMS

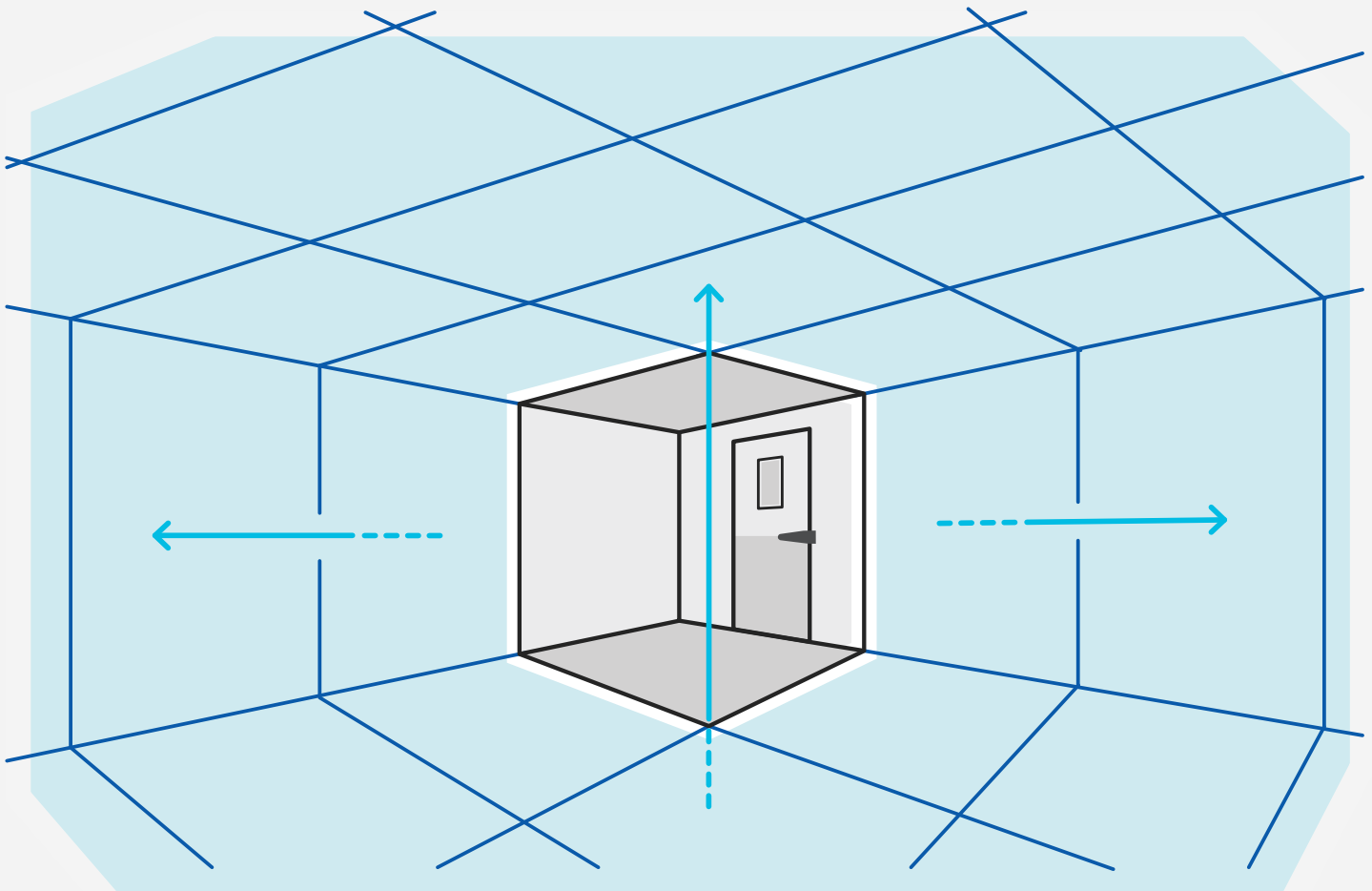
ENGINEERED FOR SCIENCE



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Labworks LW Series of Controlled Environment Rooms offer efficiency, performance and quality in a flexible design suited for Research, Pharma, and critical temperature control applications. Room sizes are available from 6ft x 6ft up to 50ft x 50ft, and can be custom ordered for non-standard layouts. Professionally designed, modeled, and factory tested assures that performance will meet specified requirements. In addition our rooms offer unique features that maximize storage space, improve reliability, and ensure the room meets user requirements.



STANDARD SIZING: Our standard rooms can be designed from 6ft x 6ft up to 50ft x 50ft.
CUSTOM SIZING: Non-standard layouts and sizing is also available to suit your specific requirements.

WANT TO LEARN MORE? Please get in touch admin@labworksinternational.com



FEATURES

Environmentally friendly – LOW GWP R448a / R452a Refrigerants;

'Labtech' Environmental Control Unit is factory assembled, tested and certified to UL 471-2010;

Units are available in water-cooled or air-cooled configurations;

'Smart' Control Panel including BACnet-IP Connectivity, 7" LCD Display, On-Board Data Recording and optional web 'APP' for monitoring and control;

The 'Labtech' is located out of space for maximum available storage. All service work can be performed from outside the space which ensures nothing in the room is disrupted;

Available dedicated ventilation air cooling coil to ensure air is pre-treated before entering the room;

Advanced refrigeration circuit features continuous operation with hot-gas temperature control providing precise temperature and humidity control;

High-performance diffuser is designed using computerized fluid dynamics (CFD) to provide optimal room mixing. No requirement for intrusive egg-crate grilles or evaporators in the room;

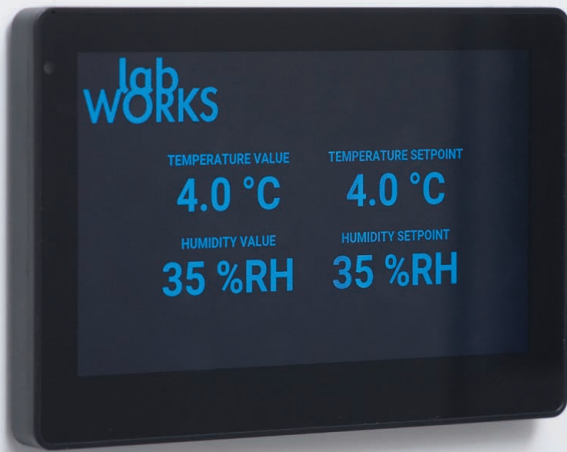
Environmental Control Unit features a boil-out drain pan design eliminating the need for condensate drains*;

Available steam humidification system;

Available desiccant dehumidification unit for optimal low humidity performance;

Fully redundant rooms are available for critical applications.

PERFORMANCE



ENVIRONMENT ROOMS

Temperature: 39F (4C) to 98.6F (37C) +/- 1.8F (1C)

Humidity: 10% RH to 95% RH +/- 5%

Temperature Uniformity: +/- 0.9F (0.5C)

WALK IN FREEZERS

-10C to -45C

Optional Zero Defrost Impact for validated environments.

ICH STABILITY ROOMS

2C – 8C Cold Rooms

25C / 60% Relative Humidity

30C / 65% Relative Humidity

40C / 75% Relative Humidity

VARIABLE TEMPERATURE TESTING CHAMBERS

Ranging from -40F/-40C to +158F/70C

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CONTROLS



Standard Units ship complete with:

Labworks 'Smart' control panel which includes BACnet IP (BTL Listed) interface to connect to building systems;

LCD Touchscreen (7") interface for monitoring, control, trending, scheduling and diagnostics;

App for iPhone/Android devices allowing for remote monitoring and control.

Onboard data recorder will store selected parameters for up to 2 years.

Precision NIST traceable sensors for temperature and humidity.

BACnet IP interface module.

UPGRADEABLE TO: FDA compliant control units - 21 CFR Part 11 standard – for Pharma Applications.

Alarm notification via email and/or texts.

REFRIGERATION

Labworks designs the most environmentally friendly Environment Rooms available. Our Labtech refrigeration units use low-GWP R448a refrigerant, and a very low charge which improves overall system efficiency. In standard configuration the unit will provide user-adjustable performance between 39F (4C) and 98F (37C), which allows rooms to be used for multiple purposes over their lifespan. The refrigeration circuit is factory assembled and performance tested to ensure all components are functioning properly. A dedicated fresh air cooling coil is used to remove excess moisture and pre-condition ventilation air before it is introduced to the room. For areas with adequate ventilation the Labtech's boil-out drain pan feature eliminates the need for evaporator drain lines.



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CONTROL PANEL OPTIONS

22 Ga. to 26 Ga. Galvanized steel - white baked enamel with embossed finish/ smooth finish.

304 Stainless Steel.

316 Stainless Steel.

uPVC cleanroom finishes available.

Specialty finishes available upon request.

ROOM FINISHES

Insulated panel construction with double gaskets to ensure a superior seal. Our doors are available in a range of sizes and configurations to match every application.

Options include:

Swing doors;

Sliding doors;

Glass doors;

Available Powered operation;

Door protection;

Vision panels (14"x20" standard);

Emergency release.

DOORS

High-performance windows are available for rooms where it is required to have a view into or out of the room. Windows are available in a range of sizes to suit the application.

WINDOWS



MODULAR ENVIRONMENTAL CHAMBER



DESIGNED, TESTED AND READY TO SHIP

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