



Environmental Rooms

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Product Overview

Conviron's Environmental Rooms offer efficiency, performance, and quality in a scalable design. Room configuration is ideally suited for applications where environmental controls and/or room materials are critical. Room sizes can be custom ordered for non-standard layouts. Professionally designed, and proven, our rooms provide performance that will meet your specified requirements. In addition, Conviron's rooms offer unique features that maximize storage space, improve reliability, and ensure performance to desired specifications. Fully redundant rooms are available for critical applications.

Temperature

Conditioned air is provided by an easy-access ceiling mounted environmental control unit (ECU). In its standard configuration the unit provides user adjustable temperature between 4°C and 37°C \pm 1°C. The ECU is out of the workspace to maximum available storage inside the unit. Due to its top mount position, all service work can be performed outside the room, minimizing disruption to room contents. The refrigeration circuit is factory assembled and performance tested to ensure all components meet specifications. Units are available in water cooled or air-cooled configurations.

Units use R404a refrigerant and feature hot-gas bypass control with continuous compressor operation. For areas with adequate ventilation the ECU's boil-out drain pan feature eliminates the need for evaporator drains.

Lighting

High efficiency LED vapour proof light fixtures and trim finishes ensure the room meets required light levels. Available lighting options include occupancy sensors for enhanced energy performance.

Humidity

Rooms are available with a broad relative humidity range from 10% to 95% RH (\pm 5%). Additive RH options use steam, or ultrasonic humidification and desiccant for low humidity performance.

Scalable Design

Room dimensions are flexible and can be scaled to meet your faculty requirements.



Options

Controls

Convion's CMP 6060 touchscreen. Also Available:

- Argus Titan
- Honeywell
- BACNET IP interface module
- FDA grade control units to 21 CFR Part 11 standard

Finish

- 24 Ga. or 26 Ga. Galvanized steel - white baked enamel with embossed or smooth finish
- 304 grade stainless steel suitable for biological applications or 316 grade for chemical applications – both offering excellent levels of corrosion resistance
- Specialty finishes available upon request

Panel Construction

- R24 – 3" (7.6 cm) or 4" (10.2 cm) polyurethane foam insulated panels certified to ASTM E84 (2016)
- Floor panels available with checker plate or vinyl finish and ramps as required
- Optional Factory Mutual (FM) certified panels available

Doors

- Insulated panel construction
- Double gaskets
- Swing doors
- Sliding doors
- Powered operation
- Door protection
- Vision panels - 14" x 20" (36 cm x 51 cm) standard
- Emergency release
- Door ajar alarms

Windows

- Viewing windows
- Available in a range of sizes to suit the application

Shelving

- Customizable shelving, casework and benches to maximize storage while maintaining the required performance of the room
- Shelving is available in epoxy coated and stainless steel.
- Shelf supports can be added to room construction for wall hung units

Electrical Services

- Preformed conduits throughout rooms for receptacles, data services, panic buttons, or additional monitoring points
- Fully customizable configurations available for services inside rooms with electrical raceways as required

Wall Protection

- Customizable configuration bumper guards inside rooms at any height and varying product materials including, stainless steel, high density PVC, or other custom materials as requested
- Preformed reinforcement in walls available as requested for mounting of any customer supplied equipment



