

ENVIRONMENTAL ROOMS by RUSSELLS

Russells environmental rooms incorporate modular designed prefabricated panels for an economical solution for steady state testing. We have incorporated many years of designing custom industrial test systems and have incorporated the latest technologies into this product.

Russells can provide a turnkey installation of your room with equipment designed to meet your exact needs. Our rooms are engineered to handle your steady state temperature and humidity requirements.

Russells Environmental Rooms include the following features:

- Economical cost
- Unlimited sizes
- Ease of move in and installation
- Ozone friendly refrigerants
- User friendly controls
- Easy to relocate
- Simple refrigeration packages

Environmental Room Applications:

- Biological research
- Pharmaceutical stability & aging
- Entomology research
- Crop & soil science
- Incubators
- Consumer product testing
- Archival storage
- Cold Storage
- Sports medicine research

Typical Ranges:

- -4°F/-20°C to 104°F/40°C
- Humidity Range: 20% to 95% RH within the bounds of a 158°F/70°C max. dry bulb and a 40°F/4°C min. dewpoint.

Russells environmental rooms are available in any imaginable size. A Russells application engineer can assist you in selecting the chamber configuration and size that is most economical for your testing needs. Let Russells give you the competitive edge!



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Standard Features:

- Modular chamber construction with pre-fabricated wall panels produced with a urethane foam insulation core.
- Wall insulation, 13k factor.
- Wall thickness: 4" (100mm).
- Available wall panel finishes: galvanized steel, steel w/baked enamel, embossed aluminum, stainless steel.
- Floor loading to 600 lbs/ft² (2900 kg/m²) evenly distributed.
- Available door sizes from 34" to 60". Bifold doors are available.
- Hardware hinges and latches are heavy duty polished castings.
- Microprocessor temperature/humidity programmer controller mounted in council w/acrylic cover.

Cooling:

- Low or zero ozone depletion refrigerants.
- Air cooled condenser.
- Compressor overload protection.
- All piping joints silfos or silver soldered.
- Refrigeration/condenser skid

Electrical:

- All wiring meets NEC standards.
- 120 volt control circuit transformer.
- Fully enclosed electrical panel mounted above instruments.
- All circuits fused or circuit breaker protected.
- Full system function switches w/ system status pilot lights.
- Incandescent interior lighting.
- All wiring numbered or color coded.

Optional Accessories:

- Through-wall access ports w/foam plugs.
- Viewing windows.
- Refrigeration gauges.
- Refrigeration sound deadening package.
- Water cooled condenser.
- Humidity water demineralizer.
- Dry air purge system.
- Desiccant dehumidifier.
- Ante rooms.
- Entry ramp.
- Running timer meter.
- Electrical disconnect switch.
- Floor screeds for attachment of "floorless" chamber to existing building floor.
- Key locked instrumentation council.
- Outdoor refrigeration units.

Optional Instrumentation:

- Solid state humidity sensor on humidity models.
- Product safeguard redundant over/under temperature limit.
- Circular or electronic chart recorders.
- Computer communications, networking, data-logging software.