

Solid Construction Walk-In Temperature/Humidity Chambers, W-SERIES

Russells unitized solid construction test chambers give the maximum durability and performance for your most demanding test requirements. Moisture build up can be very damaging to many products, especially electronics, causing corrosion and oxidation. Russells W-Series chambers allow manufacturers to simulate how their products will perform in the most extreme temperature and humidity conditions.

Russells W-Series chambers can provide the following combination of controlled testing environments:

- Steady state temperature and temperature/humidity tests
- Rapid rate temp./humidity cycling tests (>9°F/5°C/min.)
- Elevated temperature heat aging (>350°F/177°C)



WD-768-25-25-WC

Cabinet Features:

- Brushed 304 stainless steel liner, heliarc welded and dye checked
- Welded steel frame, removable access panels to serviceable components, durable enamel finish
- Fiberglass insulation, 0.25K factor
- Full opening door with dual gaskets (many door configurations available)

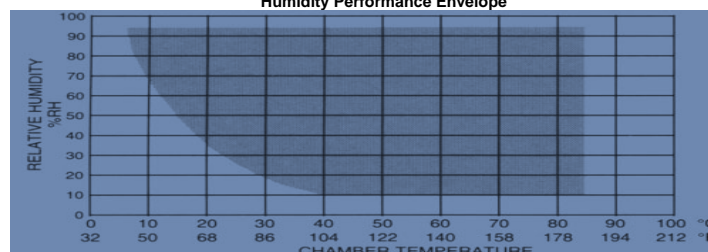
Performance:

- Temperature range for single stage refrigeration: -13°F/-25°C to 350°F/177°C
- Temperature range for cascade refrigeration: -100°F/-73°C to 350°F/177°C
- Humidity Range: 10% to 95% RH within the bounds of a 185°F/85°C max. dry bulb and a 40°F/4°C min. dewpoint.



Russells W-Series chambers are available in sizes from 225 cu./ft. (6,371L) to drive in sizes. 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!

Humidity Performance Envelope



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Standard Features:

- Brushed 304 series stainless steel liner, heliarc welded and dye checked.
- Capable of handling extreme temperature and humidity.
- Fiberglass insulation, .25k factor.
- Welded steel frame.
- Full opening chamber door with dual gaskets.
- Removable access panels to serviceable components.
- Durable blue enamel finishes (custom colors available).

Cooling:

- Low or zero ozone depletion refrigerants.
- Energy saving refrigeration bypass capacity control.
- Low stage desuperheater.
- Oil pressure switches.
- Compressor suction and discharge pressure switches.
- Water cooled condenser.
- Vapor tank and condenser ASME certified.
- Compressor overload protection.
- High stage compressor crankcase heater.
- Compressor head fans.
- Low stage oil separator.
- All piping joints silfos or silver soldered.
- Stainless steel compressor condensate pans.

Electrical:

- All wiring meets NEC standards.
- 120 volt control circuit transformer.
- Fully enclosed electrical panel.
- 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.
- High Temperature limit safety.
- Master heating circuit contactor.
- Air circulator/heater interlock
- Balanced load on 3 phase power.

Optional Accessories:

- Through-wall access ports w/foam plugs.
- Viewing windows.
- Refrigeration gauges.
- Refrigeration sound deadening package.
- Remote refrigeration systems.
- LN2 boost cooling.
- Air cooled condenser.
- Humidity water demineralizer.
- Dry air purge system.
- Desiccant dehumidifier.
- Personnel entrance airlock.
- Entry ramp.
- Running timer meter.
- System message display.
- Electrical disconnect switch.
- Explosion proof electrical system.

Optional Instrumentation:

- Microprocessor temperature/humidity programmer controller.
- 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.
- Free standing remote instrument console.