

Stability Studies

Percival® model RX-3000

Stability Chamber 9.6 ft³ (272 liters)

Applications

- Designed to meet ICH guidelines for long-term stability testing conditions and many more applications

Standard chamber meets all temperatures and % relative humidity conditions specified in ICH guidelines below:

- 25°C and 60% RH
- 30°C and 65% RH
- 30°C and 70% RH
- 30°C and 75% RH
- 40°C and 75% RH

Temperature Range

- 2°-44°C (±0.5°C) throughout the chamber
- Temperature control accuracy: +/- 0.1°C

Humidification

- % RH ranges per specifications at the listed temperatures above (see Applications)
- Humidity control accuracy: +/- 2%
- Humidity uniformity: +/- 5% throughout the chamber
- Humidifier type: ultrasonic
- Humidifier water supply: deionized or RO

Dehumidification

- 25°C and 60% RH
- 30°C and 35% RH
- Control accuracy: +/- 2%
- Humidity uniformity: +/- 5%

IntellusUltra Controller

The IntellusUltra (C8T) control system adapts to nearly any programming style with a large range of options for optimal control over experiments.

- Robust and reliable, industrial-grade integrated hardware design



IntellusUltra Controller (continued)

- Highly flexible programming capabilities for customized configurations and expansion
- Precise, simultaneous control of up to 7 environmental parameters
- Industry-leading experiment protection and system diagnostics

IntellusUltra Touchscreen Interface

This high-resolution touchscreen displays advanced settings and data for fine-tuning experiments, including graphs and charts.

- 10.1" IPS, high resolution display with 10-point multi-touch sensitivity
- Tabular and graphical presentation of chamber programs and parameters
- Highly visible process values and alarm notifications
- Enhanced user feedback menus

Please visit www.percival-scientific.com for more information on our control systems.

RX-3000 specifications (subject to change without notice)

Temp Range	Relative Humidity	Work Area		Exterior Dimensions						Shelving Size		Tiers
				width		depth		height				
°C		ft²	m²	in	cm	in	cm	in	cm	in	cm	
2-44±0.5	up to 75% @ 40°C	9	0.8	31	78.7	23.8	60.3	46	116.8	26.5 x 16.5	67.3 x 41.9	3

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Insulation

- Construction using 2" high-grade materials, such as closed-cell and non-CFC Urethane insulation

Cabinet Construction

- Interior constructed of 22-gauge #304-4 stainless steel
- Interior floor constructed of 24-gauge polished stainless steel
- Exterior constructed of 24-gauge Galvannealed extra-smooth steel
- Integrated floor drain
- Chamber is completely self-contained, suitable for stacking one above the other
- Overall wall thickness is 2" (5.1 cm)
- Highly durable and reflective white coating

Door

- One door opening of 26.8" x 29.8" (67.9 cm x 75.6 cm) provides full access to the chamber interior
- Magnetic gasket provides a tight seal to door frame
- Door and frame heaters with drip deflector

Interior Space

- 9.6 ft³ (0.272 m³) with shelf area of 9 ft² (0.8 m²) provided on three tiers

Shelving

- Three tiers of stainless steel wire shelving (each shelf is 16.5"D x 26.5"W [41.9 cm x 67.3 cm])
- Shelves are supported by shelf clips allowing ½" vertical adjustments
- Maximum clearance between shelves is 8" (20.3 cm)

Refrigeration

- Self-contained air-cooled condensing unit with hot gas bypass system (continuous running condensing unit ensures precise temperature control by alternately cycling refrigerant and hot gas to coil; this also prolongs life of compressor and eliminates risk of ice buildup in coil)
- Top-mounted refrigeration system allows easy access for maintenance and cleaning
- As heat is rejected, it rises and is dissipated into room without having any effect on inside temperature of cabinet
- Extended stem solenoid valves for quiet and long life operation
- Ceiling-mounted evaporator coils incorporate dual air circulation fans in aluminum housing
- Heat rejection to ambient (standard chamber) = 1,865 BTU/hr

Options (most popular)

- IntellusUltra Connect (C9)
- Additive CO₂ control
- CO₂ removal system
- Self-contained water-cooled condensing unit
- Dry alarm contacts
- Stacking hardware
- Extended temperature ranges available
- Convenience receptacles

Contact info@percival-scientific.com with questions or for additional information about chamber options.

Electrical Service Requirements

- 115/1/60 with NEMA 5-15P plug provided (with standard chamber)
- RLA=9 (MCA=11)

Regulatory Standards

- Electrical Safety: UL-508A, certified and labelled by Percival Scientific under UL file number E340161
- Quality System: ISO 9001:2015, certified under DQS, Inc. under certification number 10017261

Helping You Create Better Science

Percival Scientific controlled environment systems are the culmination of over 60 years of design and manufacturing experience. We developed our high-quality products through direct partnerships within the scientific community. Our controlled environments are known for their customizable designs and superior, long-lasting performance. Creativity, passion, technical expertise and attention to detail drive our scientific innovation, and we are proud to help you create better science.



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