

Stability Studies

Percival® model RX-3600

Stability Chamber Chamber 29.7 ft³ (840 liters)

Applications

- Designed to meet ICH guidelines for long-term stability testing conditions.

Please compare your own requirements to the specifications listed below.

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 ($\pm 0.5^\circ\text{C}$) throughout the chamber
- Temperature control accuracy: +/- 0.1°C

Humidification

- % RH ranges per specifications above at those specific temperatures
- 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% throughout the chamber

Percival's IntellusUltra Controller

The IntellusUltra (C8) 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

RX-3600 specifications

(subject to change without notice)

Temp Range	Relative Humidity	Work Area		Exterior Dimensions						Shelving Size		Tiers
		ft ²	m ²	in	cm	in	cm	in	cm	in	cm	
°C	up to 75% @ 40°C	32.6	3	33.5	85.1	33.6	85.4	77.2	196.1	28.8 x 27	73 x 68.6	6
2-44±0.5												



Percival's 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
- SCADA/LIMS Port available to provide CFR21 Part 11 or EU GMP Annex 11 compliance

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

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Insulation

- Woodless construction using 2" thick foamed-in-place non-CFC Urethane insulation with 93% closed cell, R-value of 12.5, K-value of 0.16 and density of 2.2 lbs/ft³

Cabinet Construction

- 26-gauge smooth galvanized white side walls and top reinforced with 24-gauge backer plates
- Interior constructed of 24-gauge #304-4 stainless steel
- 24-gauge smooth white galvanized exterior
- NSF-compliant seam design
- Overall wall thickness is 2" (5.1 cm)
- Foamed-in-place non-CFC insulation (refer to insulation section)
- One 1 1/4" diameter access port on right hand wall
- Integrated floor drain
- Contains casters assembly and adjustable leveling legs to compensate for uneven flooring

Door

- One door opening 29.3" x 57.5" (74.3 cm x 146.1 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

- 29.7 ft³ (0.8 m³) with work area of 32.3 ft² (3 m²) provided on six tiers

Shelving

- Six tiers of stainless steel wire shelving (each shelf is 27"D x 28.8"W [68.6 cm x 73 cm])
- Shelves are supported by shelf clips allowing 1/2" vertical adjustments
- Maximum clearance between shelves is 8" (20.3 cm) per tier with all six shelves installed

Refrigeration

- Self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and tight temperature control (this 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
- Solenoid valves have extended stem for quiet and long life operation
- Ceiling-mounted evaporator coil incorporates twin air circulation fans in aluminum housing (heat rejection to ambient [standard chamber] is 1865 BTU/hr)

Options (most popular)

- IntellusUltra Connect (C9)
- Convenience outlets
- Extended temperature
- CO₂ enrichment package
- Door with observation window and cover (Q2)
- Dry alarm contacts
- LED working light (Q24)
- Door lock

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

Electrical Service Requirements

- 120/1/60 with NEMA 5-15P plug provided (with standard chamber)
- RLA=9.0A (MCA=11.3A)

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. Our high-quality products have been developed through direct partnerships with the scientific community and offer platforms that are highly customizable and provide superior performance. We understand that scientific innovation comes from creativity, passion, technical expertise and attention to detail, and we are proud to help you create better science.



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