

thermo electric chambers

Percival® model TE-1100

applications

- This chamber is specifically designed for environmental simulation, material testing and stability testing in accordance with the ICH guidelines

Please compare your own requirements to the specifications listed below.

IntellusUltraConnect control system with touch screen

- Programs can be run in ramping or non ramping mode
- Customizable email notifications for chamber status and alarms
- High-definition touch screen interface
- Trend graphs viewed directly on screen for both set point and actual conditions
- On board data logging exportable to USB drive

PercivalConnect remote communications software

- Supports multiple chambers, users and user levels
- Provides remote access to chamber process values, alarms and data logs
- Web based user interface requires minimal software installation and maintenance
- Ability to view multiple chambers in one tabular, central location
- Advanced graphing and data logging tools
- SCADA/LIMS port available to support CFR21 part 11 or EU GMP Annex 11 compliance

Please refer to www.percival-scientific.com for additional information regarding the control system.



heating and cooling

- Energy saving Peltier heating/cooling system integrated in the rear of the chamber

temperature range

- Working temperature maximum to +70°C
- Minimum working temperature 20°C below ambient (i.e. 4°C in a 24°C room ambient)
- Setting accuracy temperature: 0.1°C

TE-1100 specifications (subject to change without notice)

Temp Range (°C)		Humidity Range (%RH)		Exterior Dimensions						Interior Dimensions						Interior Volume		Tiers
Low	High	Low	High	width	depth	height	width	depth	height	width	depth	height	width	depth	height	ft³	m³	
see note	70°C	15%	95%	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	ft³	m³	5

Note: 90.1 cm (35.7") chamber depth with easy to remove door allows passage thru standard building door. Note: 20°C below ambient.

thermo electric chambers Percival model TE-1100

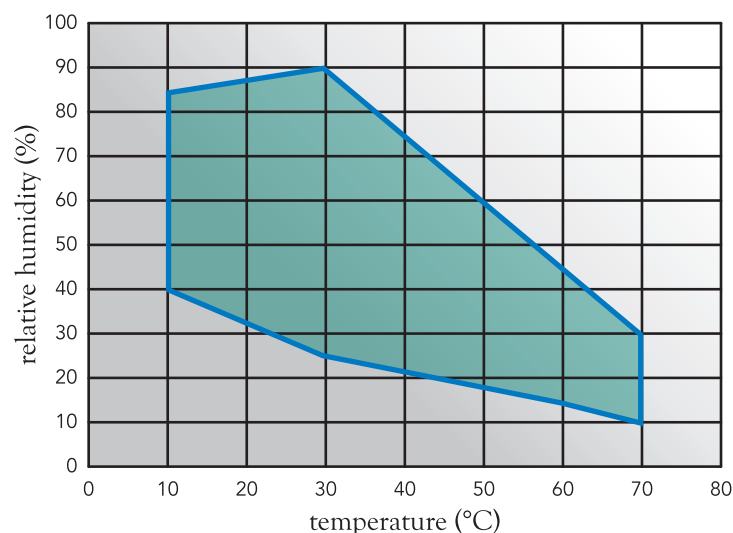


humidity

- Setting range is 0-99% RH
- Control range is 10-90% RH
- Humidifier: humidification steam generator
- Humidifier water requirements: distilled water
- Dehumidification using Peltier technology

See other specification sheets or consult factory for additional information.

temperature vs. humidity performance



*Graph displays chamber performance with steam humidity system

cabinet construction

- Maximizes interior volume with minimal use of floor space
- Allows chamber to fit through standard doors without disassembling critical components
- Interior constructed of 24 gauge #304-4 stainless steel
- 24 gauge reinforced smooth white galvanized exterior
- Overall wall thickness 5.1 cm (2")
- Chamber floor equipped with floor drain and hose assembly
- Contains caster assembly and adjustable leveling legs to compensate for floor unevenness in the lab

interior space

- 37.5 ft³ (1.06 m³) with work area of 31 ft² (2.9 m²) provided on five tiers

shelving

- Five tiers of stainless steel shelving (each shelf is 92 cm x 63 cm [36.1" x 24.75"])
- Slidable, non-tilt shelves in adjustable stainless steel rails
- Stainless steel rails are adjustable in 4 cm (1.56") increments
- Maximum clearance between equally spaced shelves is 30.5 cm (12") per tier with all five shelves installed
- Maximum number of shelves = 19

door

- One door opening 93.5 cm x 164 cm (36.8" x 64.6") provides full access to chamber interior (magnetic gasket provides a tight seal to door frame)
- Right hand swing standard

standard equipment

- Calibration certificate for +25°C/40%RH and +40°C/75%RH

electrical service requirements (choose one)

- 230 V, 50/60Hz, approx. 1500W max.
- 115 V, 50/60Hz, approx. 1500W max.; NEMA plug 5-20p



Percival Scientific, Inc.
505 Research Drive • Perry, IA 50220 USA
800.695.2743 • 515.465.9363 • Fax: 515.465.9464
www.percival-scientific.com