



T2 Series

The Tenney T2 Temperature and Humidity Cycling Chamber simulates a wide range of temperature and humidity conditions while utilizing minimal floor space. We specifically designed these chambers to have a compact exterior and an ample interior workspace.

The T2 Temperature and Humidity Cycling Chamber design allocates space within the interior of the cabinet for all standard options. This greatly improves the mobility of the unit as well as the overall appearance.

► Features

- All models feature vapor-tight, continuously welded stainless steel interiors
- 3-inch port is standard on left side
- 3-inch diameter phenolic non-marking casters
- Temperature and humidity conditions are controlled with the Watlow F4T profiling type dual channel 1/4 DIN controller
- Data logging and Graphical trend chart for Watlow F4T controller
- Low workspace height to ease the loading and unloading of product
- Accurate control and display with minimum maintenance
- Vertical recirculation conditioning system
- 120V power supply cord with male NEMA 5-20P plug

► Options: *Humidity Model Only

- RS 232 communications
- RS 485 communications
- Synergy Quattro touch screen controller*
- 5 gallon water reservoir*
- Recirculating system for humidity water*
- Water demineralizer*
- Additional ports
- Viewing windows up to 6" x 8" and thermal insulated
- Interior lighting
- Shelving, adjustable and removable
- Automatic CO2 or LN2 cooling boost system
- Boost heating system
- GN2 purge system
- Recording instruments
- Tempguard IV Over-temperature Protection
- External dryer for obtaining humidity levels as low as 5%*
- NIST Calibration
- Tenney Environmental offers calibration services accredited to the ISO 17025 standard
- Additional engineered to order custom configurations available



**Baker Furnace, Blue M, Gruenberg, Lindberg/MPH,
Lunaire, Tenney, Wisconsin Oven**

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Specifications and Product Information are subject to change without notice.

| Model | T2C | | T2RC | |
|--|--|------------------|--|--|
| Cubic Feet | 2 | | | |
| Liters | 56 | | | |
| Work Space (WxDxH) | 16" x 13.5" x 16" 406mm x 343mm x 406mm | | 16" x 13.5" x 16" 406mm x 343mm x 406mm | |
| Exterior (WxDxH) | 26" x 27" x 65" 660mm x 686mm x 1651mm | | 26" x 27" x 68" 660mm x 686mm x 1727mm | |
| Approx Unit Weight | 495 lbs / 225 kg | | 565 lbs / 257 kg | |
| Approx Crated Weight | 545 lbs / 248kg | | 615 lbs / 279 kg | |
| Temperature Range | | | | |
| Standard Temperature Range | -68°C to 180°C | | | |
| Optional Temperature Range | -75°C to 200°C | | -75°C to 180°C | |
| Humidity Range | N/A | | 20% to 95% in the dry bulb range of +20°C to 85°C as limited by a 5°C dewpoint | |
| Cooling Rates (empty chamber) Min (°C/min) | | | | |
| 180°C to -65°C | 111 (2.2) | ambient to -20°C | 13 (3.4) | |
| 125°C to -35°C | 54 (2.9) | ambient to -40°C | 26 (2.4) | |
| 85°C to -40°C | 46 (2.7) | ambient to -65°C | 49 (1.8) | |
| Heating Rates (empty chamber) Min (°C/min) | | | | |
| -65°C to 180°C | 100 (2.4) | -35°C to ambient | 21 (2.7) | |
| -20°C to 85°C | 32 (3.2) | ambient to 125°C | 36 (2.7) | |
| -40°C to 85°C | 37 (3.3) | ambient to 180°C | 70 (2.1) | |
| Live Load Watts @ -18°C | 300 | | | |
| Live Load Watts @ -40°C | 200 | | | |
| Live Load Watts @ -54°C | 150 | | | |

| | T2C | | T2RC | |
|-------------------------------|---|--|----------------------------|--|
| Temperature Control | ±1.0°C after stabilization | | | |
| Humidity Control | N/A | | ±5% RH after stabilization | |
| Air Flow Rate | 50 CFM | | | |
| Heat Capacity | 500 W | | | |
| Refrigeration | Two (2) 1/2 HP | | | |
| Humidifier | N/A | | 500 W-GPH 0.15 | |
| Condenser | Air Cooled | | | |
| Condenser Discharge Air | Exits on right side of the chamber | | | |
| Heat of Rejection | Maximum 6300 BTU's per hour | | | |
| Power | 120V - 1PH - 60 Hz | | | |
| Amp - Fuse | 20 | | | |
| Amp - Under Load | 16 | | | |
| NEMA Plug | Male Plug NEMA 5 - 20P | | | |
| Standard Ports Included (loc) | 3" Standard Port w/ Plug centered left sidewall | | | |
| Decibel Level | Less than 58 dBA as measured 3 feet from chamber, 5 feet from the floor at right angles | | | |
| Load Per Shelf | 10 lbs / 5 kg per shelf (Maximum chamber load including shelf and floor load not to exceed 50 lbs / 23 kg) | | | |
| Number of Shelves Standard | None | | | |
| Max Number of Shelves | 4 Shelves | | | |
| Shelf Spacing | 2" / 50mm on Pilasters | | | |
| Chamber Spacing Requirement | 18" / 458mm on all sides | | | |
| Floor Load Rating | 50 lbs / 23 kg | | | |

Performance is based upon an empty chamber operating at 24°C (75°F) ambient air. On 50Hz or higher than 24°C ambient, performance may be reduced. Consult factory regarding any special cooling requirements.