

# Tenney T2 Series

## Test Chambers

Tenney's new T2 Chamber is capable of simulating a wide range of temperature and humidity conditions while utilizing minimal floor space. These chambers are well suited for use in electronics, military, and pharmaceutical quality assurance and reliability testing, as well as research testing and production processes. In keeping with the needs of today's lab, we specifically designed these chambers to have a compact exterior, yet an ample interior work-space to maximize valuable floor space.

### Features

- All models feature vapor-tight, continuously welded stainless steel interiors
- New design allocates space within the interior of the cabinet for all standard options, which greatly improves the mobility of the units as well as the overall appearance
- New touch screen controller provides precise control over chamber operations and monitoring, and is mounted at eye level
- Workspace height has been lowered to provide efficient loading and unloading of product
- The sensors provide excellent control and display accuracy with minimum maintenance
- New design provides maximum performance with minimum footprint
- Uniform conditions are assured through the use of a vertical-down recirculating conditioning system



**Tenney**

## Standard Features at a Glance:

- Vapor tight interior made of 100% stainless steel
- Non-settling, asbestos-free insulation
- VersaTenn III control system (temp/humidity)
- Watlow F4 Controller (temp only)
- Control tolerance of  $\pm 0.3^{\circ}\text{C}$
- Hermetic refrigeration system
- Tenney VaporFlo humidity system
- Low mass nichrome, open wire heating system
- NEC wiring compliance
- Vertical-down recirculating conditioning system
- Double silicon gaskets on doors
- 2" diameter access port with plug
- $\pm 2\%$  RH typical after stabilization

## Options:

- IEEE/488 interface
- LinkTenn software for Windows® that permits your computer to control up to 10 chambers
- RS422, 423, 232 or 485 interface assemblies
- Upgrade to VersaTenn (standard on T2RC)
- Water reservoir for humidity system (5 gallon)
- Recirculating system for humidity water
- Additional ports
- Event relay board
- Water demineralizer
- Viewing window, 6" x 8", thermally insulated and heated (no manual wiper required)
- Interior light
- Shelving, adjustable and removable
- Automatic CO<sub>2</sub> or LN<sub>2</sub> cooling boost system
- Automating boost heating system
- GN<sub>2</sub> purge system
- Refrigeration taps and pressure gauges
- Recording instruments
- Redundant thermal protection and alarm system
- External dryer for obtaining humidity as low as 5% (to 20°C)
- Alternate power supply wiring

## Tenney T2 Test Chamber Specifications

Model		T2RC	T2C
Workspace inches (mm)	W	17(432)	17(432)
	D	13(330)	13(330)
	H	16(406)	16(406)
Exterior inches (mm)	W	26.5(673)	26.5(673)
	D	23(584)	23(584)
	H	69(1753)	69(1753)

## Temperature Range

Low	°C	-75	-75
High	°C	+200	+200

## Change rates in minutes

Ambient to °C Chamber Empty	200°	90	90
	150°	40	40
	100°	25	25
	93°	17	17
	65°	9	9
	2°	5	5
	-7°	7	7
	-12°	10	10
	-40°	30	30
	-54°	45	45
	-65°	70	70
	-73°	100	100
	-75°	Ultimate	Ultimate

## Utilities, etc.

Refrigeration		(2) 1/2 HP + 1/2 HP	(2) 1/2 HP + 1/2 HP
Heater Capacity		500 W	500 W
Humidifier	W	500	—
	GPH	0.15	—
AMPS @ 115V, 1Ø		18	18
AMPS Fuse		20	20
Unit Weight	LBS/Kg	350/158	350/158

Humidity capability: 20% to 98% RH in the dry bulb range of +20°C to +85°C as limited by a 3° dewpoint. Test data based on 24°C ambient, sea level, 60Hz. On 50 Hz or higher than 24°C ambient, performance may be reduced. Consult factory regarding any special cooling requirements. CFC-free refrigerants are used exclusively on all Tenney chambers.