

# Tenney Jr. Test Chambers

Tenney's compact junior line of chambers in both bench-top and floor models are capable of simulating a wide range of temperature conditions. These chambers are well-suited for use in electronic, 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 workspace to maximize valuable floor space.

Newly Redesigned  
**TJR**



## Construction

All models feature vapor-tight, continuously welded stainless steel interiors. Structural reinforcement is used at all critical points. A combination of fiberglass and polyurethane insulation surrounds the chamber to maximize insulating characteristics, thus ensuring minimal thermal transfer.

## Control Tolerance

$\pm 0.3^{\circ}\text{C}$  after stabilization.

## Control System for Tenney Jr. and TU Jr.

The proprietary controller can be used to manually set the chamber at a given temperature, or it may be used to enter, store, and execute a temperature profile.

### Features include:

- The ability to store 8 programs with 16 segments each.
- Guided 256 step, 40 profile ramp and soak programmable memory
- High definition four line LCD controller interface display
- Precise process control
- Simplifies setup and operation
- Menu customization
- Enhanced process monitoring
- High performance 16 bit microprocessor
- Enhanced environmental chamber control
- Cascade control
- Real-time clock with battery backup
- RS232 Communications



# Tenney

## Standard Features at a Glance:

- Vapor tight interior made of 100% stainless steel
- Non-settling, asbestos-free insulation
- Watlow F4 controller
- Control tolerance of  $\pm 0.3^{\circ}\text{C}$
- Hermetic refrigeration system
- Low mass nichrome, open wire heating system
- NEC wiring compliance
- Vertical-down recirculating conditioning system
- Double silicon gaskets on doors
- 3" diameter access port with plug

## Options:

- IEEE/488 interface
- LinkTenn software for Windows that permits your computer to control up to 10 chambers
- Viewing window, 6" x 8", thermally insulated
- Interior light
- Shelving, adjustable and removable
- Automatic CO<sub>2</sub> or LN<sub>2</sub> cooling boost system
- GN<sub>2</sub> purge system
- Recording instruments
- Tempguard
- Alternate power supply options
- Chamber cart with casters (TJR model only)
- Stacking option (TJR model only)

## Tenney Jr. Chamber Specifications

Model		TJR	TUJR
Workspace	W	16 / 406	
	D	11 / 279	
	H	12 / 305	
Exterior	W	37 / 940	25-5/8 / 650
	D	22-1/2 / 572	21-7/8 / 560
	H	31-3/4 / 807	60 / 1524

Overall dimensions in inches/millimeters

## Temperature Range

Low	$^{\circ}\text{C}$	-75
High	$^{\circ}\text{C}$	+200

## Change rates in minutes

Ambient to $^{\circ}\text{C}$ to Chamber Empty	200 $^{\circ}$	60
	185 $^{\circ}$	50
	160 $^{\circ}$	40
	140 $^{\circ}$	30
	105 $^{\circ}$	20
	70 $^{\circ}$	10
	25 $^{\circ}$	0
	-15 $^{\circ}$	10
	-40 $^{\circ}$	20
	-54 $^{\circ}$	30
	-65 $^{\circ}$	40
	-73 $^{\circ}$	55
	-75 $^{\circ}$	Ultimate

## Live load capacity in watts (humidity system off)

Temperature $^{\circ}\text{C}$	-40 $^{\circ}$	170
	-54 $^{\circ}$	145
	-65 $^{\circ}$	105
	-73 $^{\circ}$	60
	-75 $^{\circ}$	Ultimate

## Utilities, etc.

Refrigeration	(2) 1/2 HP		
Heater Capacity	500 W		
AMPS @ 120V/1 $\phi$ /60Hz	—	18	—
AMPS Fuse	—	20	—
Unit Weight	LBS/Kg	292/132	336/152