



Tenney Strat - Altitude Simulation

## Tenney Strat Altitude Chambers

Tenney's Tenneystrat Altitude Chambers simulate altitudes up to 200,000 feet. With an overall temperature range of  $-70^{\circ}\text{C}$  to  $+177^{\circ}\text{C}$ , humidity capabilities of 20% to 98% RH, and workspace sizes ranging from 5 to 64 cubic feet, this highly developed line of altitude chambers offers one of the broadest selections in the industry.

We are confident that our solid altitude chamber construction and precise operating systems will provide the exacting performance and a high degree of reliability for your altitude testing needs.

### ► Features

- Continuously welded, stainless steel, vapor-tight interior liners
- Control tolerance is  $\pm 0.3^{\circ}\text{C}$  and  $\pm 2\%$  RH typical after stabilization
- Linear pressure transducer to measure altitude
- Non-corroding humidity system
- Low-water protection on humidity system
- Vertical-down recirculating conditioning stream



Overall dimensions in inches/centimeters

Model		T5ST		10ST		15ST		27ST			36ST			48ST			64ST		
System Horsepower Size		4		6	15	6	15	6	15	20	6	15	20	15	20	30	15	20	30
Workspace inches (mm)	W	21/53 (533/1346)		24/61 (610/1549)		24/61 (609/1549)		36/91 (914/2311)			36/91 (914/2311)			48/122 (1219/3099)			48/122 (1219/3099)		
	D	21/53 (533/1346)		24/61 (610/1549)		36/91 (914/2311)		36/91 (914/2311)			48/122 (1219/3099)			36/91 (914/2311)			48/122 (1219/3099)		
	H	48/122 (1219/3099)		30/76 (762/1930)		30/76 (762/1930)		36/91 (914/2311)			36/91 (914/2311)			48/122 (1219/3099)			48/122 (1219/3099)		
Exterior inches (mm)	W	25/51 (635/1295)		51/130 (1295/3302)		52/130 (1320/3302)		63/160 (1600/4064)			63/160 (1600/4064)			77/196 (1956/4978)			77/196 (1956/4978)		
	D	63/152 (1600/3860)		99/203 (2515/5156)		111/236 (2819/5994)		111/241 (2819/6121)			123/272 (3124/6909)			123½ / 281 (3131/7137)			135½ / 312 (3435/7924)		
	H	78/183 (1981/4648)		84/210 (2134/5334)		84/213 (2134/5410)		90/229 (2286/5817)			90/229 (2286/5817)			91/231 (2311/5867)			91/231 (2311/5867)		
Utilities, etc																			
Heater Capacity		2		4		6		8			8			16			16		
Humidifier	Watts	1						2						3					
	GPH	1.05						1.0						1.5					
AMPS @ 230V, 33		33(1)	48	81	52	85	63	96	130	63	96	130	120	149	183	120	149	183	
AMPS, Fuse		45	70	110	70	120	80	125	175	80	125	175	150	200	250	150	200	250	
Cooling Water, 20°C GPM		-	3	6	3	6	3	6	9	3	6	9	6	9	12	6	9	12	
Unit Weight	LBS/KG	1300/590		3150/1429		4850/2200		3150/1429			6550/2971			11,500/5216			13,050/5920		

- Humidity capability: 20% to 98% RH in the temperature range of +20°C to +85°C as limited by a 3 degree dew point.
- Humidity not achieved simultaneously with altitude.
- Add suffix "R" to model number for humidity.
- Vacuum performance: All chambers achieve altitude up to 100,000 feet (8.2 mm Hg) in 35 minutes. Optional features extend altitude capabilities to 200,000 feet (0.17 mm Hg).
- Combined temperature and altitude to 60,000 feet maximum.
- Test data based on a 24°C ambient, sea level, 60 Hz. Performance slightly reduced on 50 Hz. Power requirements based on standard vacuum pump.



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