

Tenneystrat Altitude Chambers

Tenney's Tenneystrat Altitude Chambers are capable of simulating altitudes up to 200,000 feet, depending upon configuration. With an overall temperature range of -70°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
- A platinum RTD temperature sensor
- Linear pressure transducer to measure altitude
- Completely non-corroding humidity system
- Low-water protection on humidity system
- Vertical-down recirculating conditioning stream



Tenney

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	W	21/53	24/61		24/61		36/91			36/91			48/122			48/122			
	D	21/53	24/61		36/91		36/91			48/122			36/91			48/122			
	H	48/122	30/76		30/76		36/91			36/91			48/122			48/122			
Exterior	W	25/51	51/130		52/130		63/160			63/160			77/196			77/196			
	D	63/152	99/203		111/236		111/241			123/272			123-½/281			135-½/312			
	H	78/183	84/210		84/213		90/229			90/229			91/231			91/231			
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, 3Ø		33(1Ø)	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	1300/590	3150/1429		4850/2200		3150/1429			6550/2971			11,500/5216			13,050/5920			

Notes:

- Humidity capability: 20% to 98% RH in the temperature range of +20°C to +85°C as limited by a 3° dewpoint.
- 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 150,000 feet (1 mm Hg) and 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.